Educating Tomorrow's Workforce

April 2008

SIA's 2008 Report
On the U.S. Semiconductor Industry's Commitment to Science, Technology, Engineering and Math Education in Grades K-12 in the United States
Educating Tomorrow's Workforce

SIA’s 2008 Report on the U.S. Semiconductor Industry’s Commitment To Science, Technology, Engineering And Math Education in Grades K-12 In the United States

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The Semiconductor Industry Association

The Semiconductor Industry Association (SIA) represents U.S.-based semiconductor manufacturers. Semiconductors are the enabling technology behind computers, cell phones, DVD players, and the many other products that are transforming how we work, think and play.

The SIA seeks to open markets abroad and promote technology development. The association’s primary focus on trade issues is to challenge unfair trade practices, eliminate tariffs on U.S. semiconductors, and create equal access for American semiconductor products in world markets.

In the U.S., the SIA is also concerned with fostering a domestic economic climate that complements the needs of the highly competitive and capital-intensive semiconductor industry. In 1998, the SIA launched its Semiconductor Workforce Strategy Committee to assist the industry in meeting its growing workforce needs.

The SIA coordinates a broad spectrum of industry programs and activities: development of a national semiconductor technology strategy, market statistics programs, and occupational health, safety and environmental initiatives.

The SIA also distributes industry statistics, sponsors conferences and publishes studies.

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For information about this catalog, contact Missy Norquist at missy.norquist@nsccom
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Preface

Supporting America's students and teachers in math and science education is critical for the United States to maintain global technological leadership. In the semiconductor industry, the need for chips is growing faster than the industry's ability to cultivate and hire sufficient numbers of skilled engineering and technical talent.

Traditional industry business cycles and the current economic climate have combined to create one of the most challenging periods in semiconductor industry history. In spite of the challenges, there is -- and will continue to be for many years -- a significant need for well-trained technology workers.

To substantially increase the numbers of math- and science-focused students (our next generation of technology workers), there must be strong support from teachers, parents, mentors and corporate, government and association partners. This effort needs to take place long before students reach high school, and continue throughout their studies.

In recent years, SIA member companies have begun working more intensely to improve student achievement in grades K-12. The overall contribution levels of our member companies are outstanding.

In the past 3 years:

- the combined spending by member companies on K-12 programs is over $275 Million
- more than 310,000 teachers have been trained or received support through member sponsored programs
- over 14.5 Million students have been reached by the programs these companies support

The publication is divided into several sections. The charts in the first two sections reflect the variety of programs sponsored and supported by member companies within the STEM areas of Engineering and Technology, Science, Math/Science and Infrastructure. The first section highlights programs that benefit students, while the second concentrates on programs aimed at supporting teachers and schools.

Subsequent sections include brief overviews of individual company strategies and foundation goals, detailed descriptions of the various programs in alphabetical order, as well as web resources and a geographic listing of the cited member companies.

The catalog is designed to show the focus being placed on STEM areas of education by our member companies. We hope to see, over the next several years, an increase in the number of programs that address the need for additional math and science teachers at the middle and high school level. Our other focus is programs that focus on motivating and retaining University students in Electrical Engineering. The catalog is also intended for others who share a vision of providing superior math and science education for America's students, and continued U.S. technological leadership.

Since this catalog seeks to share best practices, it does not attempt to list every K-12 program supported by semiconductor companies. It does, however, demonstrate the industry's wide-reaching impact on math and science education, and its deep commitment to developing future generations of technology talent.
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<td>Intel Teach to the Future (Intel)</td>
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<td>New Teacher Project (AMD)</td>
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<td>NUMB3RS (TI)</td>
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<td>On Demand Community (IBM)</td>
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<td>Partners in Education (Freescale, Spansion, Xilinx)</td>
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<td>Principal Executive Partnership (TI)</td>
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<td><strong>K-12</strong></td>
<td>Reading is FUNdamental (Spansion)</td>
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<td>Reinventing Education (IBM)</td>
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<td>Santa Clara University – Raising an Ethical Child (Xilinx)</td>
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<td>Skillpoint Alliance (AMD, Spansion)</td>
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<td>St. Edward's University (AMD)</td>
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<td>Teach to the Future (Intel)</td>
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<td>Transition to Teaching (IBM)</td>
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<td>Volunteer Matching Grants and Community Giving (IBM, Intel, Nat Semi)</td>
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<td>Writing in the Workplace (Micron)</td>
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<td><strong>Elementary</strong></td>
<td>Academic Improvement Management Software (TI)</td>
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<td><strong>Middle School</strong></td>
<td>Girls for a Change (National Semiconductor)</td>
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<td><strong>High School</strong></td>
<td>Lawndale High School Partnership &amp; Mary Story Scholarship Award (IR)</td>
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<td>Rising Star Scholarships (TI)</td>
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**KEY**

- **Black** = Local Program
- **Green** = State Program
- **Blue** = National Program
- **Red** = Company Branded
- **K-12** = Targets Underrepresented Groups
Section Three

SIA Member Company
K12 Profiles
Advanced Micro Devices (AMD)

At AMD, our vision is clear: a world where the amazing power of technology improves the quality of people's lives. Through investments in education and basic needs programs and with the technology we create, AMD enables individuals to become more productive, engaged members of a global society. Our involvement in communities worldwide includes donating technology, contributing financially, and encouraging our employees to volunteer. AMD also doubles the impact of our employees' contributions by offering a dollar-for-dollar match for time and money they donate to charitable organizations and schools.

K–12 Education
AMD’s K–12 initiatives target programs that increase student interest and/or proficiency in math, science, and technology. Since great teachers are key to successful learning, AMD also funds programs aimed at developing and supporting effective classroom instruction.

Just as good jobs are critical to community stability, skilled and dedicated employees are a driving factor behind AMD’s success. AMD sponsors a number of college & career awareness initiatives to introduce students and adults to jobs in the high-tech sector and to equip community members with the job skills they need to be self-sufficient.

Schools and Programs Supported
Austin Community College
Breakthrough
Columbia Neighborhood Center
Del Valle Independent School District
Girlstart
IISME
New Teacher Project: Silicon Valley
Project Help
Resource Area for Teachers (RAFT)
Science Buddies
Skillpoint Alliance
St. Edward’s University School of Education
Sunnyvale School District
Analog Devices

Analog Devices’ K-12 goals are to increase student interest in science and math subjects, to update teachers’ knowledge of ever changing technology; to increase the numbers of females and minorities pursuing math and science, and to increase the overall numbers of students pursuing advanced education in engineering. Our corporate contributions support programs for School to Business Partnerships, for science education, and for scholarships. Analog also provides financial support to local school systems in those areas of the country where its major facilities are located, namely Norwood and Wilmington, Massachusetts; Greensboro, North Carolina; and San Jose, California.

Schools and Programs Supported
Electronics Fairs
Discovery Museum
Girls Inc
Junior Achievement
Massachusetts State Science Fair
MIT MITE’s Program
Presentations and Site Visits
RESEED
Robotics Programs
Solar System Unit

For more information about Analog Devices Inc., visit:
www.analog.com
Freescale Semiconductor

Freescale Semiconductor is committed to supporting and expanding K-12 education opportunities for children in communities where we live and work.

Currently, we support the following programs in Tempe and Chandler, Arizona and Austin, Texas:

**Schools and Programs Supported**
Austin Alumni Chapter for National Society of Black Engineers – Fresh Start
Capital BEST Robotics
Boys and Girls Clubs MBA program
Breakthrough
Girl Scouts Camp Athena
National Engineers Week
Partners in Education
Rocket Launch
School Supply Drives
Science Expeditionary Force
Science Screen Report (SSR)
Southwest Center for Education and the Natural Environment (SCENES)
Un Sabado Gigante in Engineering
Valley Forward Earthfest
IBM’s global commitment to education is demonstrated through a wide range of initiatives designed to improve schools and raise student achievement through the implementation of innovative technology solutions.

**Schools and Programs Supported**
IBM & Computer Science Teachers Association
IBM EXITE (Exploring Interests in Technology and Engineering) Camps
IBM Kidsmart Early Learning Program
IBM Mentor Place
On Demand Community
PowerUp
Reinventing Education
TraduceloAhora
Transition to Teaching
TryEngineering
TryScience
Volunteer Matching Grants Program

For more information about IBM Corporate Citizenship & Corporate Affairs, visit: www.ibm.com/ibm/ibmgives.
Intel Corporation

Education is a top priority and critical focus of Intel’s commitment to the community. To help young people everywhere thrive in today’s global knowledge economy, Intel invests over $100 million per year in education programs, over $65 million in the United States. Integral to Intel’s education initiative is a focus on success for all, including women, underrepresented minorities and those with little or no access to technology. Intel’s education programs include:

**Schools and Programs Supported**

Achieve  
Design Squad  
Engineering is Elementary  
Intel Computer Clubhouse Network  
Intel International Science and Engineering Fair  
Intel Math Initiative  
Intel Schools of Distinction Awards  
Intel Science Talent Search  
Intel Teach to the Future  
Matching Grants and Community Giving  
National Governors Association STEM Center Grants  
Project Lead the Way  
Technology and Equipment Grants  
UC Math and Science Initiative

**For more information about Intel, visit:**  
www.intel.com/education
International Rectifier

K-12 Commitment & Support
International Rectifier, the world’s leading supplier of power management semiconductors, is proud of its partnership with educators, schools and leading supporters of K-12 education. In the past 3 years, IR has contributed more than $300,000 and a large number of employees’ time to fostering education and interest in the sciences. Here are a few examples of our investment in education.

Programs and Schools Supported
Imaginary Lines – the Sally Ride Math & Science Club
Lawndale High School Partnership
The Mary Story Scholarship Award
Employee/Community Scholarships
Project Tomorrow
Partners in Education
Micron Technology, Inc.

Micron partners with K-12 schools and community organizations where Micron has a major presence, to promote greater interest and stronger skills in math, science, technology, and the semiconductor industry. Micron funds high-impact programs that drive advancements in science and engineering education with grants from the Micron Technology Foundation and through corporate community and academic relations programs. Micron’s K-12 Outreach Program provides opportunities for team members to mentor students through math and science activities and career awareness events.

Micron focuses on innovative ways of teaching science and math while encouraging the integration of technology in the classroom. This is being accomplished through programs like the Treasure Valley Math and Science Center, now in its third year of operation. With a $1 million donation from the Micron Foundation, local school districts have teamed with industry and community partners to develop this exciting school. The program provides a facility and programs to enhance educational excellence in the areas of science, math, and technology by encouraging inquiry-based learning, high-level thinking, discovery, and research. Micron team members partner with the school to provide mentoring opportunities for students through various K-12 Programs.

Additional partners such as the Discovery Center of Idaho, Camp Invention, Lee Pesky Learning Center, MathCounts, and Computers for Kids receive continued support through donations of cash and equipment.
Programs and Schools Supported
Career Fairs
Careers in a High Tech World
Chip Camp
Developing Mathematical Thinking
Discover Engineering
Education is Crucial
E-Girls
E-Mail Mentor Program
Engineering the Future Teacher Workshops
Find your Future “Micron for Students”
FIRST Robotics
Grade Level Team Presentations
Internships (High School)
Lesson Plans and Presentations
Math in the Workplace
MathCounts
Micron Science and Technology Scholars Program
Presentations and Site Visits
SAT/ACT Math Tutoring
Science Fairs and Competitions
Site Visits
Spark a Passion for Science and Math
Teacher Internships
Treasure Valley Math and Science Center
Writing in the Workplace
Women in Technical Careers

For more information:
www.micron.com/giving
www.micron.com/k-12
National Semiconductor

National Semiconductor is proud to support K-12 education through a variety of awards, grants, partnerships, and volunteer opportunities.

Through the National Semiconductor Foundation, more than half of a million dollars annually is donated to support K-12 education. In addition, National Semiconductor matches employee contributions to educational institutions dollar-for-dollar, up to $1,000 per employee each year.

National Semiconductor’s major education project is the Science In Action initiative, a $1 million, three-year initiative to help K-12 school teachers bring exciting, hands-on science education to their students. In addition to the Science in Action Initiative, National Semiconductor is proud to support many other education programs in our communities.

National Semiconductor employees contribute hundreds of hours each year to local schools as volunteers and mentors. National Semiconductor has established formal partnerships with neighboring school districts, including Santa Clara Unified School District, Sunnyvale Elementary School District, Cupertino Union School District and Fremont Union High School District. Through our partnerships we provide funding, volunteers and consultation.

In Maine, National supports the Maine Festival of the Book, put on by Maine Reads, a nonprofit organization dedicated to improving literacy. The company also provides scholarships and cooperative education assignments for graduating students who plan to study engineering or computer science.

In Texas, National Semiconductor supports the Arlington Public Library Summer Reading Program and also funds math and science scholarships for high school students involved in Big Brothers Big Sisters of North Texas.

Members of National Semiconductor’s Texas management team actively participate in educational initiatives through positions on district foundations, school boards, and the Chamber of Commerce.

As a result of its support of local schools, National Semiconductor received the 2008 Texas Education Partnership Crystal Award from the Texas Association of Partners in Education, which recognizes exemplary partners and partnership programs annually.
Programs and Schools Supported
Agile Mind – STEM Initiative
Applied Science and Technology Program
Arlington ISD Education Foundation
Environmental Volunteers
GAINS
Get SET Program
Girls For a Change
IISME
Project HELP
RAFT
RESEED
Science Buddies
Science in Action
Teacher Recognition
Volunteerism

For more information about National Semiconductor, visit:
www.national.com
Qualcomm

Since the company's founding in 1985, Qualcomm has donated more than $75 million to a variety of educational programs and institutions. Qualcomm strives to prepare today's students for the demands of tomorrow. We look for ways where we can make measurable, meaningful change, and we bring our breadth of resources – human, financial and technical -- to the service of these projects. We support programs across the educational continuum: training for K-12 math and science teachers, curriculum development at the high school and college level, transformational change for urban public schools, collaboration between the high-tech sector and university-level instruction, and aligning resources for students at all levels to explore careers in engineering.

**K-12 Education**
Qualcomm sees education as the most powerful tool to enable success for our community, both socially and economically. We are proud to support programs at the K-12 grade levels, because we believe that early student achievement is critical for the development of our future high-tech workforce. We target three focus areas within math and science education: teacher professional development, student success, and systemic transformation.

Qualcomm supports a broad range of classroom and after-school programs that directly impact student achievement in math and science. Some of our key partners include: Elementary Institute of Science, San Diego Science Alliance, Barrio Logan College Institute, AVID, and Classroom of the Future Foundation.

**Access to Engineering**
Qualcomm strives to increase exposure to science, technology, and mathematics curriculum to under-represented populations. We partner with a variety of organizations to provide system-wide access for women and minorities to career paths in the high tech world. These organizations include: National Action Council on Minorities in Engineering, Tech Trek, Girls MATTER, Society of Hispanic Engineers, San Diego MESA, National Society of Black Engineers, San Diego MANA, and the Society of Women Engineers.

**Programs and Schools Supported**
California State Summer School for Mathematics and Science (COSMOS)
FIRST Robotics
Improving Student Achievement in Mathematics
National Center for Urban School Transformation (NCUST)
Project Lead the Way
Project Lead the Way
Qualcomm Career Experience
Spansion

From its inception, Spansion has been dedicated to being a good corporate citizen in the communities. Each site worldwide is empowered to invest resources of money, time and talent in their community to help educate the next workforce, encourage children and youths to prepare for the challenges of higher education, and provide basic human needs such as food, shelter and clinic-based healthcare. We utilize various methods, primarily focusing on Global Grants in our site communities, Volunteering, and Employee Giving (Matching Gifts, Dollars for Doers, Donation Drives).

Because each site knows its community best, Spansion encourages customized community involvement programs. Every site invests in the schools in their community, and each has programs that express Spansion’s corporate value of respect for people in ways that are unique to their community and their culture.

Spansion is involved in a number of organizations that promote K-12 education – some through board involvement and some through charitable contributions:

Envision Central Texas, Board of Directors
Hands on Central Texas, Board of Directors
Community Action Network, Committee Chair
IISME, Board of Directors
ISSM Conference, Board of Directors
NOVA, Board of Directors
Project HELP, Board of Directors
Sunnyvale Chamber of Commerce, Board of Directors
Greater Austin Chamber of Commerce, Board of Directors
United Way Central Texas, Board of Directors

Currently, we support the following US programs in Santa Clara County, California and Travis County, Texas:
Programs and Schools Supported
Austin Community College
Central Texas Sustainability Indicators Project Education Survey
Discover Engineering
IISME
Junior Achievement
Partners in Education
Project Help
Reading is FUNdamental
Resource Area for Teachers (RAFT)
Schmahl Science Workshop
School Partnerships
Skillpoint Alliance

For more information about Spansion, visit: www.spansion.com
Texas Instruments

At Texas Instruments, education is the highest priority for corporate philanthropy. Each year, TI makes financial contributions totaling millions of dollars in grants and other gifts to schools, colleges and educational programs. Volunteer hours, equipment donations and in-kind contributions significantly extend the impact of its commitment to education.

TI's involvement in education is focused on advocating systemic reform on the local, state and national levels to close the achievement gap and improve student performance. Particularly in preschool and K-12 education, TI seeks opportunities for fundamental change by developing programs with measurable success that can be replicated elsewhere.

TI has long been a leader in the effort to advance assessment and accountability processes in the Texas public schools, an approach that has been nationally recognized. The company also works in partnership with individual schools to enhance the learning environment.

We’re placing more emphasis than ever before on core areas, such as math, science and engineering, to help foster our next generation of high-tech workers. And we're also expanding our focus on educational opportunities for women and other traditionally underrepresented groups in technical fields.

To broaden teachers’ access to valuable resource materials and professional development opportunities, TI partners with many national and state-level education associations, sponsoring many of their outreach and training activities. These include the National Council of Teachers of Mathematics Academy for Professional Development, the Eisenhower National Clearinghouse, the Mathematical Association of America, The College Board, and the Texas Middle School Association, to name a few.

The education process offers many opportunities to engage and excite children about mathematics and science. TI believes this long-term investment is critical to preparing today’s students for 21st century jobs and helping the United States to remain competitive in the global economy.
Programs and Schools Supported
“T-Cubed” Teachers Teaching with Technology
Academic Improvement Management Software (AIM)
Advanced Placement Incentive Program
Dallas Ft. Worth Semiconductor & Technology Executive Council
Destination Graduation
Gender Equity Program
Head Start
High Technology Education Coalition of Collin County (HiTECCC)
Infinity Project
Innovations in Science, Technology, Engineering and Mathematics
Teacher Awards
MATHCOUNTS
MathForward
NUMB3RS
Principal Executive Partnership
Rising Star
Texas BEST
TI Math Scholars
Visioneering Event

For more information go to:
Xilinx

Xilinx is dedicated to making a difference in our global communities by improving the quality of life through our partnerships, funding, volunteerism and employee sports/social activities.

Our vision is to create global teams and programs which consist of recreation activities and charitable giving that sets the standard for providing systemic change and measurable results.

Each year Xilinx actively participates in supporting and improving the community by contributing to the areas of focus listed below. Additionally, employees are encouraged to invest their time in activities that enable them to make an impact in their local community.

**Expected Goals and Outcomes for the Educational Ecosystem**

- Build relationships, through funding and service, between Xilinx, schools, and community partners, to result in increased student achievement in targeted areas (Education, Community and Social, Health and the Arts)

- Implement a 3-5 year strategy to support Education that is systemic, impactful and replicable globally (a franchisable model)

- Show measurable progression through grades K-12 by partnering with business, non-profits and community stakeholders to influence the workforce of the future

**Creating the workforce for tomorrow by:**

- **Enhancing** science & technology programs
- **Influencing** integrated curriculum and articulation plans
- **Connecting** schools to non-profits for greater impact
- **Multiplying** the Xilinx dollars

The Xilinx philosophy is very much a grassroots giving approach with the ownership and direction coming from the employees of the communities in which they live and work.

**Programs and Schools Supported**

- Almaden Valley Counseling Services (AVCS)
- Junior Achievement (JA)
- Partners in Education
- Resource Area for Teaching (RAFT)
- Santa Clara University
- Youth Science Institute (YSI)
Section Four

Education Initiatives Supported by SIA
The SIA board established the SIA Semiconductor Workforce Strategy Committee in 1998, to address the looming shortage of qualified and talented workers prepared to work in the semiconductor industry and continue the advancement of microelectronic technology. To ensure America continued to graduate the inventors of tomorrow's semiconductors, the SIA workforce committee brought attention to existing efforts to increase the number of high school graduates motivated and prepared to enter university science and engineering programs. SIA’s K-12 catalog highlights individual member companies' investments in science, technology, engineering and mathematics education programs. In addition, the committee supports collaboration with other organizations interested in teacher training, technician training at community colleges, and advocating public policies to support STEM education.

**SEMI Workforce Development Institute for Teachers**

Since 2003, SIA has partnered with the Semiconductor Equipment and Materials International (SEMI) to sponsor SEMI High Tech U programs for high school teachers. High Tech U Teacher edition is a two-day professional development program designed to increase teacher awareness of career opportunities in high tech, while equipping them with math and science based learning activities. The learning activities are designed for easy integration into the classroom and support state education standards.

In 2007, 33 teachers participated in the SEMI High Tech U program held in conjunction with MATEC’s SAME-TEC (The Semiconductors, Automated Manufacturing, Electronics - Training and Education Conference) in Irving, Texas. In addition to the $30,000 sponsorship provided by the SIA, teacher travel and housing were sponsored by Analog Devices, Infineon, International Rectifier, National Semiconductor, Spansion, and Texas Instruments.

Teacher participants were surveyed prior to the start of the program and only 19% of respondents indicated a good understanding of the educational requirements for careers in the microelectronics industry. At the conclusion of the program, 85% of respondents indicated a good understanding of the educational requirements for careers in our industry.

At the completion of the program, 96% of participants indicated High Tech U exceeded their expectations in terms of learning and providing new activities to integrate into their curriculum and 100% of the participants said that they would recommend a career in the semiconductor industry to their students.
**Maricopa Advanced Technology Education Center (MATEC)**

The SIA works closely with the Maricopa Advanced Technology Education Center (MATEC) in Chandler, Arizona, to provide curriculum and faculty training and development for semiconductor manufacturing programs at nearly 100 two and four-year institutions across the United States. The National Science Foundation has been a major sponsor of MATEC since it was founded in 1996. MATEC has developed over 50 curriculum modules on all aspects of semiconductor manufacturing.

Through representation on the MATEC Advisory Board, and by sponsoring MATEC's annual conference for education and business partners, SIA has a strong voice in a national, leading-edge program to advance semiconductor manufacturing development and education.

**Semiconductor Research Corporation Education Programs**

SIA has partnered with the Education Alliance of its affiliate organization, the Semiconductor Research Corporation (SRC), on various education initiatives. SRC offers doctoral fellowships and master's scholarships in disciplines of interest to the semiconductor industry. SRC's Graduate Fellowship Program addresses the issues of improving educational opportunities at the doctoral level, while also helping fuel a well-trained work force for the semiconductor industry. The program encourages gifted U.S. and Canadian students to pursue doctoral degrees in research areas consistent with SRC goals.

**Public Policies to Promote K-12**

The SIA strongly supports K-12 reforms embodied in "No Child Left Behind" Act (NCLB), signed into law in 2002. The bill's national focus on high standards, annual assessments in core subjects, greater accountability for results, and enhanced teacher quality will help ensure that all children receive the education they need to succeed in our complex global economy.

Over the past four years SIA, has worked actively with other organizations to expand the talent pipeline over the long term by supporting programs and adequate appropriations to improve science, technology, engineering and mathematics (STEM) education at the K-12 and undergraduate levels. Among the programs that SIA has supported are those outlined in the American COMPETES Act, such as the Noyce Scholarship Program and the STEM Talent Expansion Program (STEP).
The Semiconductor Industry Association’s Workforce Strategy Committee, National Semiconductor, LSI Logic, IBM, Texas Instruments, and Xilinx have sponsored a project aimed at improving the ultimate number and quality of Electrical Engineers graduating from our nation’s engineering schools. Our industry’s advancements in technology have a common thread at their core — talented, creative engineers able to find innovative ways to add incredible power, speed and function to the thousands and thousands of chip designs and applications we see all around us every day. The member companies of SIA share a common concern that the supply of qualified EE graduates will not be adequate to meet future workforce demands in the years ahead. While enrollment trends in EE have declined at a number of schools, competition from other counties continues to increase. Nationally, the retention rate for EE’s is below 50% and even worse for underserved populations.

An immediate way to increase the quality and supply of graduating EE’s is to increase the retention rate of students already enrolled in the EE major. Providing focused support systems in the first two years of a student’s academic program increases the likelihood a student will continue pursuit of an EE degree. This can take many forms: mentors, study partners, study teams, resource rooms, faculty partners, pre-college camps, etc.

Since 2005 the SIA and its members have provided grants totaling $120,000 to the University of California Riverside, the University of the Pacific, Rochester Institute of Technology, and Boise State to support their development of innovative retention programs. These programs have positively impacted more than 350 students pursuing engineering and computer science degrees.

The universities report improvement in retention, sustainable curriculum changes, fundamental changes to orientation programs, mentoring, and the establishment of internal benchmarks. The participating schools have found ways to leverage SIA’s investment with other resources, extending the impact of their programs. Retention improvement is evident and supported by data at the participating schools that provided data. One school reported that 62 percent of freshman remained in the major compared to 55 percent in the prior year, and another reported that 14 of 14 students remained in the program for a 100 percent return rate. All schools reported the increased focus on retention was yielding positive results and would be continued beyond SIA’s direct investment.
**Additional Projects Relevant to Education**

SIA / SRC Chip Design Challenge ... The Semiconductor Research Corporation (SRC) and the SIA are again sponsoring a chip design contest for universities. More than 40 universities and 120 engineering students competed in the first phase of the contest to design circuits with potential future electronic applications. In March 2008, eight teams shared $18,000 in prize money and a chance to have their designs fabricated by Jazz Semiconductor as part of Phase 2 of the contest. The winners of phase 2 will share $50,000 in prize money.

The Chip Design Challenge is made possible through the generous support from Advanced Micro Devices, Inc., Analog Devices, Inc., Cadence Design Systems, Freescale Semiconductor, Inc., IBM Corporation, Intel Corporation, Intersil Corporation, Jazz Semiconductor, LSI Corporation, Mentor Graphics Corporation, National Semiconductor Corporation, NVIDIA Corporation, Quik-Pak Division of Delphon Industries, and Texas Instruments Incorporated, as well as SRC and SIA. Special thanks go to Jazz Semiconductor for donating the fabrication support.
Section Five

Index of Company Supported Program Descriptions
Academic Improvement Management (AIM) software
TI volunteers provide tutoring at Julia C. Frazier in Dallas and Hamilton Park, Math, Science and Technology Magnet, Spring Valley and Carolyn G. Bukhair Elementary Schools in Richardson, Texas, and Rasor Elementary in Plano, Texas. Working with a local principal and teachers, TI employees have developed the Academic Improvement Management (AIM) software, a tool now used throughout the Dallas school district, to give teachers and administrators a precise way to measure the academic progress of pupils in the classroom. (Texas Instruments)

Achieve
As a Board member since 2001 Intel has supported Achieve, a nonprofit organization led by business leaders and governors, dedicated to helping states set standards that prepare young people for success in college and career. Currently 32 states are members of Achieve's American Diploma Project. Intel has donated approximately $2M to Achieve. (Intel)

Advanced Placement Incentive Program
TI supports and promotes the Advanced Placement Incentive Program, designed to encourage students to take more rigorous college-level course work in high school. It provides incentives to both teachers and students for their successes. As a result of the AP Incentive program operated in the Dallas Independent School District, the original 10 Dallas ISD Incentive Schools have seen the number of passing scores for all students in math and science grow 1,220 percent from pre-incentive program levels (from 71 students passing in 1995 to 937 passing in 2007). (Texas Instruments)

Agile Mind – STEM Initiative
Through the Portland Education Partnership’s Math Program, National helped implement “Agile Mind,” an interactive mathematics curriculum at a local high school. National is a sponsor and supporter of the STEM Initiative in Maine, as well as a partner of the Maine Math & Science Alliance. The STEM Initiative was launched to bring together educators, businesses, and researchers to ensure that Maine students are instilled with essential knowledge and skills in science, technology, engineering, and mathematics. (National Semiconductor)

Almaden Valley Counseling Services
The Almaden Valley Counseling Service envisions a community where everyone has access to affordable mental health counseling. AVCS is a community-based, nonprofit counseling agency committed to meeting the mental health concerns of all ages with an emphasis on youth. AVCS offers a full range of counseling services which supports and promotes personal growth, positive family relationships and emotional well-being. (Xilinx)
**Applied Sciences and Technology Program**
National Semiconductor formed a partnership with Mansfield Independent School District (MISD) to jointly develop and implement an Applied Sciences and Technology program for high school students. The program will be administered by the Ben Barber Career Institute on the MISD campus. The new facility includes a mock fab cleanroom for instructional purposes. (National Semiconductor)

**Arlington I.S.D. Education Foundation**
National Semiconductor continues to fund the Arlington and Mansfield Independent School District foundations with a combined annual grant of $30,000 to help further educational development for local students in math and science. National supports the Arlington I.S.D. Education Foundation with an annual $10,000 contribution. (National Semiconductor)

**Arlington Gateway Summer Camp**
National Semiconductor sponsors 7th grade students to attend the University of Texas at Arlington Gateway Summer Camp. The students stay on campus for a week and learn about science and engineering through classes and projects held at the University.

**Austin Alumni Chapter of National Association for Black Engineers (NSBE) – Fresh Start**
For the past 3 years Freescale has hosted and sponsored a day long series of hands on engineering, math and science workshops and motivational speakers for students in grades 6-12. The program is called Fresh Start. (Freescale)

**Austin Community College-Austin, Texas**
In addition to high-school outreach, the company has invested heavily at the community-college level. Along with other area high-tech companies, AMD was instrumental in designing a specialized degree program at Austin Community College (ACC) to meet the semiconductor industry’s need for locally trained technicians.

To support the need for skilled employees, AMD has provided scholarships to more than 87 deserving students who attend the Austin Community College Electronics and Applied Technologies Program. As these deserving students expand their career options by furthering their education, the community gains a larger pool of well-educated and highly motivated potential employees. (AMD)
Austin Community College, Summer Youth Program
This two-week enrichment academy provides more than 170 students from low income elementary and middle schools with an introduction to college options through a program that helps them develop classroom skills while laying the foundation for post-high school education. School year Saturday programs and parent support reinforce the program and help students succeed in school. AMD has sponsored the ACC Summer Youth Academy since 1996. (AMD, Spansion)

Boys and Girls Clubs MBA program
Freescale worked with the Boys and Girls clubs in the Austin, Texas area to sponsor the Motivated by Arithmetic program (MBA). The program was designed to help children gradually develop the fundamentals of math. (Freescale)

Breakthrough
To encourage talented high school and college students to pursue careers in education, AMD provided stipends for 12 “student teachers” to spend the summer teaching math, science, English and social studies to 80 Austin area middle school students. Breakthrough is a collaboration of programs that increase educational opportunities for high-potential middle school students. Freescale also served as a Corporate Sponsor. (AMD, Freescale)

California State Summer School for Mathematics and Science (COSMOS) – Qualcomm helped bring a COSMOS Institute to the University of California San Diego. COSMOS is a residential academic experience for top high school students in mathematics and science. The COSMOS course clusters address topics not traditionally taught in high schools such as astronomy, aerospace engineering, biomedical sciences, computer science, wetlands ecology, ocean science, robotics, game theory, and more. (Qualcomm)

Capital BEST Robotics
A science, technology and innovation competition involving hundreds of students from more than 20 Austin, Texas area high schools. Freescale has been a sponsor of this program for several years. (Freescale)

Careers in a High Tech World
High school juniors and seniors interested in technical careers participate in a full-day program that offers a general introduction to technical careers and a job shadowing opportunity. This opportunity is available to students in Idaho and Virginia. Since 1999 over nine hundred students have participated in this job shadow opportunity. Many have returned to Micron as college interns. (Micron)

Career Fairs: Micron employees participate in Career Days and Career Fairs for a variety of schools and school districts where Micron Technology, Inc. has a presence. (Micron)
Career presentations: Micron team members visit classrooms to describe the semiconductor industry and the various career opportunities. They help students to understand their particular careers and how to prepare for high tech opportunities. (Micron)

Central Texas Sustainability Indicators Project Education Survey
The CTSIP provides accurate, impartial data on a variety of indicators to assist the region with planning and addressing critical needs. By tracking trends, the region can determine where progress is being made in community issues. The recent addition of an Education Survey allows regional educators, community leaders and elected officials, to identify strengths and weaknesses in our region's educational system from early childhood programs through college. (Spansion)

Chip Camp: Micron engineers lead hands-on science activities related to semiconductor manufacturing in three-day summer camp sessions. The camps are for budding young scientists exiting the seventh and eighth grades. Chip Camp includes robotics, chemistry, physics and math activities that stir students’ interest in STEM subject areas. (Micron)

Columbia Neighborhood Center-Sunnyvale, California
Seeking to provide needed services to an under-served neighborhood, AMD partnered with the City of Sunnyvale and the Sunnyvale School District to build the AMD Sports and Service Center, the core of the Columbia Neighborhood Center. Celebrating its 10th anniversary this year, this school-based service hub continues to provide accessible education, recreation, health, and social service programs to students and their families in North Sunnyvale. In partnership with Columbia Middle School, AMD renewed its ongoing commitment and support for the organization. (AMD)

Dallas Ft. Worth Semiconductor & Technology Executive Council
Texas Instruments was a founding member of DFW SEC, the Dallas Ft. Worth Semiconductor & Technology Executive Council. Through the combined efforts of these companies, teachers and counselors in the region are learning more about the industry and needs for students in math and science. (Texas Instruments)

Del Valle Independent School District
Math and science education is fundamental to the work of AMD. By strengthening the math instruction skills of teachers, AMD is able to impact a large number of students, thereby enhancing their college and career success. Since 1988, AMD has partnered with the Del Valle Independent School District in Austin, Texas to support educational initiatives ranging from gifted and talented programs to innovative math academies for teachers and students, to teacher development and retention. School partnerships include Baty and Hillcrest Elementary Schools. (AMD)
Design Squad
Since 2006 Intel has also contributed almost $1.5M as a major sponsor of the nationally televised PBS TV show Design Squad that increases kids’ interest in engineering by showcasing engaging, real-life applications. The extensive outreach program powered across the country by volunteers from engineering societies, Boys and Girls Clubs, Girls Scouts, and K12 schools, colleges and universities reached over 53,000 youth in it’s first year. (Intel)

Destination Graduation
Texas Instruments has partnered with the United Way of Metropolitan Dallas to improve graduation rates among Dallas and Collin County students via a program titled, “Destination Graduation.” The program targets high school students in the ninth grade using college preparation, interactive parental involvement classes and one-on-one mentoring programs to educate students and parents on the long-term benefits of a high school diploma. (Texas Instruments)

Developing Mathematical Thinking
In an effort to support the math initiative efforts of the Idaho State Department of Education, the Micron Foundation recently awarded a three-year $133,488 grant to Spalding Elementary in Meridian. The grant is in support of an intensive three-year professional development program for K-6 elementary school teachers developed by Boise State University faculty member, Dr. Jonathan Brendefur, and his research team. The program, Developing Mathematical Thinking, is based on research that indicates children who conceptually grasp numbers, problem solving and place value during elementary mathematics are better prepared for algebra and functions. During the program, teachers work on strengthening their own math content knowledge and using multiple problem solving strategies to help students learn. The Micron Foundation serves on the Idaho Math Initiative Task Force and considers Developing Mathematic Thinking a model program that could be used to strengthen mathematics statewide. (Micron)

Discover Engineering
Idaho - In cooperation with Boise State University College of Engineering and several other community sponsors, Micron offers a family event to celebrate National Engineer Week by engaging children and their parents in stimulating hands-on activities that simulate various engineering disciplines. (Micron)

Texas - Formerly called Central Texas Engineers Week, Discover Engineering engages volunteers to present hands-on engineering activities in area classrooms. Spansion volunteers support schools in the Austin and Del Valle Independent School Districts and present to as many as 1,000 students in a year. (Spansion)
“Education is Crucial” is an ongoing program to supply memory upgrades to schools throughout the state of Idaho. This program has been in place since 1997 through Crucial Technology, a division of Micron. (Micron)

**E-Girls:** In summer 2004 Micron and the Boise State College of Engineering, the Society of Women Engineers, and the Boise, ID School District implemented a camp to introduce young women, grades 9 and 10 to engineering disciplines through hands-on activities in the university setting. The girls determine the mechanics of high heels, the physics of rock climbing, as well as learning about career opportunities. In addition to the summer camp, the sponsors provide an evening reunion event for previous years' participants. The reunion provides scholarship information, rekindles participants' interest in engineering careers, and tracks the impact of E-Girls on the post-high school pursuits of the young women. (Micron)

**Electronics Fairs**
ADI organizes and deliver Electronics Fairs in local Middle Schools. These fairs allow students the opportunity to be involved in such practical activities as soldering, wiring electronic circuits, working with test equipment, building radios and demonstrations of wave theory, feedback theory and Morse Code. (ADI)

**E-Mail Mentor Program:** This program matches women in technical careers with eighth grade female students. The program consists of 6 weeks of e-mail exchanges followed by an on-site meeting, job shadow, and hands-on technical demonstrations. Students are encouraged to choose challenging high school courses to help them prepare for careers of the future. (Micron)

**Employee/Community Scholarships**
Almost all of our member companies offer scholarships to children of their employees, as well as to students in their local communities (All Member Companies?)

**Engineering is Elementary**
Intel supports professional development for K-5 teachers to implement the Boston Museum of Science’s Engineering is Elementary curriculum modules in the most commonly used elementary science curriculums. (Intel)
Engineering the Future Teacher Workshop: Micron offers a special topics college workshop designed to provide teachers (and pre-service teachers) background in the semiconductor industry and in the underlying mathematical and scientific principles of the technologies that enable the industry. Teachers learn real-world applications for the science and math they teach and participate in hands-on industry-related activities to convey those concepts. Through the workshop, teachers have the opportunity to make connections for partnerships with engineers, scientists, chemists, mathematicians and other industry professionals to enrich their classrooms on an ongoing basis. One hundred percent of the teachers who have participated in the three-year-old program have reported they changed the curriculum they teach in that they infuse more application activities from the workshop. The Micron Foundation provides grant opportunities for teachers who complete the workshop to purchase materials to replicate activities in their own classrooms. (Micron)

Environmental Volunteers
National Semiconductor is a long-time supporter of Environmental Volunteers, which provides outdoor science and nature lessons to local K-12 students in the Santa Clara, California area. (National Semiconductor)

Expanding Your Horizons in Math and Science
Expanding Your Horizons in Math and Science, which encourages 7th and 8th grade girls to pursue careers in science and math. (IBM? Qualcomm?)

Find Your Future: “Micron for Students” is a dynamic Web site with career awareness activities and information. The site features “Job Talk,” job profiles of high tech careers with video clips. (Micron)

FIRST Robotics - For Inspiration and Recognition of Science and Technology)
San Diego - Qualcomm co-sponsored the inaugural San Diego Regional FIRST Robotics Competition. The FIRST Robotics Competition is an exciting, multinational competition that brings professionals and high school student teams together to solve an engineering design problem in an intense and competitive way. Qualcomm employees volunteer as student team mentors to help build a robot from design to completion, as well as volunteer at the competition event in a variety of ways such as serving as judges, robot inspectors, and scorekeepers. (Qualcomm)

Micron mentors FIRST teams in Idaho and Virginia and a BEST Robotics competition team in Texas. (Micron)

ADI sponsors various Robotics teams at local area high schools in Boston, Massachusetts (ADI)
Gender Equity Program
The Women of TI Fund is investing in programs to increase math and science participation among girls. One of its first initiatives, the **gender equity program**, has shown classroom teachers how even the most modest changes in instructional methods can make a profound difference in results. (Texas Instruments)

Get SET Program
The Society of Women Engineer’s Get SET Program provides a week-long summer camp for 80 **Latina and African American girls** interested in **careers in engineering**. The week combines lectures, hands-on activities, tours and discussions with women engineers. National provides an annual grant of $5,000, mentors and speakers for the organization’s annual luncheon. (National Semiconductor)

Girl Scouts – Camp Athena
Freescale sponsored the Lone Star Girl Scouts Council’s “Camp Athena”, a design and discovery camp for 60 participants. (Freescale)

Girls Achieving in Non-Traditional Subjects Program (GAINS)
National Semiconductor also encourages young women to consider **careers in engineering** through its participation in the Girls Achieving in Non-Traditional Subjects Program (GAINS) within the Santa Clara Unified School District. (National Semiconductor)

Girls For A Change
National is a founding sponsor of Girls For A Change, an organization whose goal is to provide 12 to 18 year-old girls with **skills and confidence** to be decision-makers and influencers in their communities. As one of the organization’s largest corporate donors, National provides a $20,000 annual grant and many in-kind services to the group. (national Semiconductor)

Girls Inc
**Girls Incorporated** is a national nonprofit youth organization dedicated to inspiring all girls to be strong, smart, and bold. With roots dating to 1864, Girls Inc has provided vital educational programs to millions of American girls, particularly those in high-risk, underserved areas. Today, innovative programs help girls confront subtle societal messages about their value and potential, and prepare them to lead successful, independent, and fulfilling lives. (ADI)

Girlstart
Girlstart is an Austin-based non-profit organization whose mission is to educate and empower girls ages 9-15 in math, science and technology. Club Girlstart is an after-school program that exposes girls to a variety of math, science, engineering and technology principles through hands on activities. (AMD)
Grade Level Team Presentations
Employee teams provide classroom presentations of Micron-developed lesson plans using hands-on activities to reinforce the math, science, or technology concepts students are studying. These lessons are published on Micron's Web site, www.micron.com/k-12. Lessons are aligned with the National Science Content standards. In fall 05, this program expanded from the Boise, ID and Lehi, UT, facilities to include Manassas, VA vicinity schools. (Micron)

Head Start
In 1990, the TI Foundation began collaborating with universities and local Head Start administrators to develop a model preschool program designed to give students from economically disadvantaged communities an equal chance to succeed in the classroom. TI initiated and remains involved with Head Start programs at the Margaret Cone Head Start Center (Dallas), Jerry Junkins Head Start Center (West Dallas), and Davids’ Place (Fair Park).

TI collaborated with SMU to develop the Language Enrichment Activities Program (LEAP) which assists in language and pre-reading skills development. (Texas Instruments)

High Technology Education Coalition of Collin County (HiTECCC)
TI partnered with the Plano Independent School District, the Collin County Community College District, and University of Texas at Dallas to form the High Technology Education Coalition of Collin County (HiTECCC), a collaborative effort designed to ensure that area students receive a high-quality science, technology, engineering and math education. Other industry advisors include Lockheed Martin, Nortel Networks, and Raytheon. Program activities to date include scholarships, summer internships, executive/principal partnerships, technology partnerships, engineering your future through math and science middle school program and physics camp for girls. (Texas Instruments)

IBM & Computer Science Teachers Association
IBM and the Computer Science Teachers Association (CSTA) are collaborating to accelerate computer science and technology skills among high school students. This marks the first time that CSTA has partnered with an IT vendor to co-develop customized courseware for secondary school audiences.

IBM and CSTA are providing 36,000 teachers with free access to computer science resources in an effort to improve teachers' expertise and help students acquire necessary skills for jobs in the 21st century. The new resources are being introduced based on a pilot program involving a half of a dozen high schools and teacher-education universities nationwide. With just a few clicks, teachers can access a series of lesson plans, guidebooks and topic overviews to incorporate concepts of computer programming and Web design into everyday math and science classes. (IBM)
IBM EX.I.T.E. (EXploring Interests in Technology and Engineering) Camps
IBM conducts a variety of technology camps for middle school students to encourage and promote interest in careers in science, engineering and technology. Over the course of the 2-3 day, or in some case weeklong camp, participants may learn how to assemble a PC, develop a website, program computers and participate in virtual teams from around the world on a variety of exciting and interactive engineering and technology projects.

In 2007, more than 1,200 middle school-aged students around the world had a unique opportunity to explore technology, math and science, as IBM expanded its EX.I.T.E. Camp program to 53 sites in the U.S., Canada, Latin America, Europe, Africa and Asia-Pacific. (IBM)

IBM KidSmart Early Learning Program
The IBM KidSmart Early Learning Program integrates new interactive teaching and learning activities using the latest technology into the curricula of nonprofit child care centers and preschools throughout the world. Since its inception in 1998, the program has served more than 40 million children, in 60 countries. Training has been provided to over 100,000 participating teachers, at 21,000 early childhood organizations around the world.

The centerpiece of Kid Smart is the Young Explorer, a colorful “kid-proof” play station manufactured by Little Tikes and IBM and loaded with award-winning educational software from Edmark, which has been translated into 28 languages. To expand the benefits of the KidSmart Early Learning program beyond IBM grant sites, IBM has developed a web site for early learning and technology at www.kidsmartearlylearning.org. Created in collaboration with the Center for Children and Technology, Bank Street College of Education and the United Way, the web site includes a separate section for parents that serves as a guide for encouraging early learning at home, as well as a section for preschool teachers which details how they can best use technology to support learning in their classrooms.

An evaluation of the KidSmart program conducted by the Bank Street College of Education found that children’s computer use was characterized by cooperation, interactive conversation and enjoyment, which are important prosocial behaviors to foster in early childhood. The evaluation also found that children using the computers were 17% more likely to engage in private speech and 25% more likely to use non-verbal gestures, both of which appear to be related to emergent literacy. (IBM)
IBM MentorPlace
IBM MentorPlace is a key component of IBM's overall commitment to public education. Through this structured, school-based online mentoring program, about 7,100 IBM employees in more than 50 countries are volunteering their time annually to more than 8,500 students between the ages of 7 and 18. IBMers are providing students with online academic assistance and career counseling, while letting them know that adults do care about their issues and concerns. The program provides a meaningful and convenient way for IBM employees to volunteer their time and talents in schools by giving IBMers with busy work and home schedules the opportunity to contribute virtually, circumventing time and distance barriers to volunteerism.

Employees communicate with students via a secure communications tool, available in Chinese, English, German, Japanese, Portuguese and Spanish, developed specifically for the program.

IBM MentorPlace is a structured program based upon mentoring research. All participants must complete program and technology training. Safety and security rules are strictly followed, and all conversations are monitored. Program evaluations also are conducted. While communication is online, there are opportunities for mentors and students to meet face-to-face at IBM and school-sponsored events. (IBM)

IISME
IISME (Industry Initiatives in Science and Math Education) provides hands-on experience in the high-tech workplace for science and math teachers, and provides tools to create curriculum with real-world relevance for students. Teachers receive stipends for their summer internships with businesses, which help them to better afford the high cost of living in the Bay Area. In addition, data show that IISME teachers have a higher retention rate and better overall job satisfaction than non-IISME teachers. (AMD, National Semiconductor)

Imaginary Lines – the Sally Ride Math & Science Club
International Rectifier was the founding sponsor of Sally Ride’s Math & Science organization, focused on Sally’s vision to stimulate increasing interest in middle school girls in the fields of math and science. Data shows that interest in math and science amongst boys and girls is relatively level in grades 1-6, at which point social and cultural dynamics impact choices dramatically. It’s at that point that young girls leave the pursuit of math and science in large numbers.
The Sally Ride Math & Science Club seeks to introduce a new dynamic to change that impact. Imaginary Lines, the company that drives the program, produces a series of festivals at colleges and universities across the country that attract hundreds of middle school girls to exhibits and presentations focused on technical fields, and all presented in an audience-friendly format. The Club also reaches those girls on an ongoing basis with on-line newsletters and activities.

In addition to its founding sponsorship, IR continues to be a lead sponsor for the Sally Ride festivals by providing funding and presentations by women who work as engineers and leaders in the Company. (International Rectifier)

Infinity Project
In 1999 in collaboration with Southern Methodist University (SMU), Texas Instruments helped design a math and science-based engineering curriculum for high school students called the Infinity Project. The class uses devices such as MP3 players and cell phones to teach engineering concepts. Infinity is now offered in nearly 275 schools in 37 states and is showing impressive results in changing student attitudes toward engineering and technology disciplines. (Texas Instruments)

Innovations in Science, Technology, Engineering and Mathematics (STEM) Teacher Awards
The TI Foundation Innovations in Science, Technology, Engineering and Mathematics (STEM) Teacher Awards were established to recognize instructors at the secondary level who are enhancing student achievement and increasing interest in high school classrooms in the Dallas, Plano and Richardson independent school districts (ISD).

As STEM fellows, the teachers participate in a unique annual professional development day at TI’s facility designed to expose them to interesting, everyday uses of math and science in the technology business world. Recipients also each receive $10,000, of which $5,000 is directly awarded to the teacher. The other $5,000 is to be used at the teacher’s discretion for professional development or instructional technology. (Texas Instruments)

Intel Computer Clubhouse Network
The Intel Computer Clubhouse Network is a community-based “after school” education program where underserved youth have access to rich multimedia technology in safe, nurturing environments, as well as mentors to build an enthusiasm for learning that will help them develop job and life skills. Launched in 1993, there are 71 Clubhouses in 15 states in the US. In 2007 Intel spent approximately $2 million dollars to support the Intel Computer Clubhouse Network. (Intel)
Intel International Science and Engineering Fair
Intel sponsors the annual Intel International Science and Engineering Fair (ISEF)—the world’s largest pre-college science competition. This competition draws over 1500 of the world’s brightest young science minds, from fairs all over the world which engage millions of young people in math, science, and engineering research. The Intel ISEF Educator Academy provides math and science-specific professional development the educators. There are approximately 466 affiliated fairs in the US in 46 states. Over $4M in scholarships and awards were presented in 2007. (Intel)

Intel Math Initiative
Intel has invested over $1M to develop and initiative that provides extensive professional development to teachers and school leaders focusing on rich mathematics knowledge and effective classroom teaching strategies. This initiative is currently being test piloted in Massachusetts and California. (Intel)

Intel Schools of Distinction Awards
Intel recognizes schools that have demonstrated excellence in math and science education as Intel Schools of Distinction. Two elementary, middle and high schools receive $10,000 cash grants and $150,000 in products and services from sponsors in recognition of their achievements. Since its inception in 2004, SODA has recognized 62 schools from 25 states with awards totaling over $9.5 million dollars. (Intel)

Intel Science Talent Search
For 10 years, Intel has also sponsored America's oldest and most prestigious science competition, the Intel Science Talent Search. This program competition allows U.S. high school seniors to complete an original research project that is recognized and judged by a national jury of highly regarded professional scientists. Prizes and scholarship awards total over $1.25M. Past winners have been the recipients of over 100 of the world’s most coveted science and math honors including six Nobel Prizes and three National Medals of Science. In 2008 over 1602 entrants competed from 45 states, Puerto Rico and the Virgin Islands. (Intel)

Intel® Teach
Intel® Teach to the Future offers free professional development to classroom teachers to help them effectively integrate technology into their curriculum and promote their students’ higher order thinking. Working with local governments, Intel® Teach has trained over 400,000 teachers in the United States since its inception. In addition to online resources and national training events, Intel is currently working with local training organizations in Alabama, Arizona, Chicago, Louisiana, Mississippi, New York, North Carolina, Texas, and West Virginia, with funding exceeding $2M in 2007. (Intel)
Internships: Micron provides work-based learning experiences for high school students attending partner schools. These semester-long experiences provide students the opportunity to apply the skills they are studying in a workplace environment and provide team members opportunities to give schools feedback on curricula. In 2006-07 Micron will provide its first “transitional” internships. These internships are designed to give freshman and sophomore college students, who have participated in internships at Micron while in high school, college internships opportunities. Historically, there has been a tendency to offer internships to upper classmen who are closer to employability. The transitional internships will provide continuity in the pipeline as Micron grows the talent pool. (Micron)

Improving Student Achievement in Mathematics (ISAM) – Program designed to improve public school mathematics instruction at all levels by enhancing teachers’ subject knowledge and instructional effectiveness. ISAM provides Math Specialist Certificate Programs for elementary school teachers, and new Highly Qualified Math Teacher Program that helps students understand the applications of math in technology. (Qualcomm)

Junior Achievement (JA)
JA’s programs guide youth to set and achieve higher educational and career goals, and develop the skills needed to achieve success. Spansion support of JA’s After School Programs (in collaboration with groups such as YMCA and After-School All Stars) helps meet the community’s needs by providing positive and productive activities to socially and academic at-risk students. This comprehensive after-school programming includes homework support, literacy development, games, sports, and arts & crafts. JA’s unique after-school program contributes a curriculum of life skills development and workforce preparation. (ADI, Spansion)

Lawndale High School Partnership
International Rectifier is proud of the partnership we’ve formed in “adopting” Lawndale (CA) High School. Lawndale High School was a functioning school for many years before being closed 9 years ago due to funding shortfalls. The school was reopened 4 years ago with a clear and strong focus on developing academic excellence and a “community center” to better serve at-risk students and their families. We support Lawndale with teacher development projects, field trips to our Wafer Fab facility, employee-taught classroom instruction and partnering our employees with Lawndale students in mentoring relationships. We’re committed to making a difference in our community and to diversity through innovative partnerships like that we have with Lawndale. (International Rectifier)

Lesson Plans and Presentations: “States of Matter,” “Parts of a Computer,” and “What’s a Capacitor?” are just a few of the lessons Micron has developed and provides on the Web. Lessons are aligned to the National Science Content Standards. (Micron)
Mary Story Scholarship Award
Mary was an International Rectifier employee who struggled throughout her life with debilitating physical challenges. Mary was hired into a position in the Company’s El Segundo operation, and went on to become a team leader and a supervisor. She became a symbol of the heart and vitality of IR people, and went on to live an independent and full life.

In her later years, Mary was the informal leader of the alumni club, taking time everyday to stay in touch with past employees of the Company and to keep our senior leaders up to speed on their lives.

Mary passed away in 2004, and at her memorial service we announced the endowment of the Mary Story Scholarship Award. This year we were proud to give scholarship awards to 6 graduating high school seniors at our adopted school, Lawndale High School, to help them pursue their education regardless of barriers with which they are confronted. (International Rectifier)

Math in the Workplace
Provides real-world demonstrations of the relevance of mathematics in a variety of careers. The problems are aligned with the National Standards for School Mathematics. (Micron)

MATHCOUNTS
MATHCOUNTS is a national math competition for public middle-school students that gives thousands of seventh and eighth grade “mathletes” a chance to race against the clock to solve challenging mathematics problems. The program features a series of competitions and elimination rounds, based on team and individual efforts. Winners from these rounds compete in the national competition in Washington, D.C. In addition to providing major funding, TI supplies the handheld technology required annually to support local, state and national MATHCOUNTS competitions. (Micron, Texas Instruments)

MathForward™
TI developed and implemented MathForward™, an algebra and algebra-readiness program grounded in research done by a prominent math educator. The intervention program has proven successful in significantly raising the test scores of students who previously failed state math assessment tests. Most pilot participants were African-American or Hispanic and most were from economically disadvantaged circumstances. First launched at a junior high in the Richardson Independent School District, the district expanded the program to four additional junior highs and one freshmen center. Additionally, TI has rolled out other sites in Ohio and Florida. (Texas Instruments)
Massachusetts State Science Fair
The Massachusetts State Science Fair is in its 59th consecutive year of celebrating inquiry-based learning, achievement and innovation in science and technology. Each year, more than 400 students participate in 10 categories, competing for over $425,000 in cash and prizes. ADI is proud to support this important event. (ADI)

Micron Science and Technology Scholars Program
Micron provides $150,000 in college scholarships annually to high school students in three states. This is a merit-based competition to recognize students who excel in academics, activities, and leadership, and who plan to major in Engineering, Physics, Chemistry or Material Sciences. A $25,000 scholarship is awarded to one male and one female in each of the eligible states (Idaho, Utah, and Virginia). Each Scholar selected also wins $1,000 for his/her school. (Micron)

MIT MITES Program (Minority Introduction to Engineering and Science)
MITES is a rigorous six-week residential, academic enrichment summer program for promising high school juniors who are interested in studying and exploring careers in science, engineering, and entrepreneurship. This national program stresses the value and reward of pursuing advanced technical degrees and careers while developing the skills necessary to achieve success in science and engineering in an increasingly racially and ethnically diverse nation and world. MITES is rooted in MIT's belief in the importance to our nation that minorities and other underrepresented segments of the population pursue higher education and careers in these fields. (ADI)

National Center for Urban School Transformation (NCUST) – Qualcomm provided the seed funding to launch the NCUST. The goal of the Center is to develop an institutional infrastructure to support the transformational process in urban schools, providing a forum for practical, action-oriented dialogue with urban school districts. The Center’s programs enable urban schools to develop customized processes for change. (Qualcomm)

National Governors Association STEM Center Grants
Intel provides leadership and funding to selected national organizations that help states build capacity to improve education. Recent examples include a $500K grant to the National Governors’ Association Innovation America Initiative to support 6 states (MN, PA, OH, CO, HI and VA) in developing K12 STEM Centers to improve math, science, engineering and technology education. (Intel)
New Teacher Project
AMD believes that the single biggest factor for student academic success is the quality of the teacher in the classroom. In California, nearly a third of new teachers leave the profession within the first three years, highlighting the need for quality teacher induction programs. AMD is proud to support the New Teacher Project that provides intensive, individual support and assistance for more than 1,600 beginning teachers in their first critical years of teaching. (AMD)

NUMB3RS
TI has partnered with the CBS television show NUMB3RS, which features a mathematician working with his FBI agent brother to solve crime. TI works with the National Council of Teachers of Mathematics to build curriculum around the show’s plot. (Texas Instruments)

On Demand Community
On November 15, 2003, IBM introduced the On Demand Community, a first-of-its-kind initiative to encourage and sustain corporate philanthropy through volunteerism by arming employees with a rich set of IBM technology tools targeted for schools and non-profit community organizations. Four years later, more than 100,000 IBM employees and more than 12,000 retirees across 80 countries comprise On Demand Community, and have already donated almost 7 million hours of community service to schools and community organizations.

The new initiative includes a rich portfolio of more than 200 proven technology solution assets for schools and not-for-profits, plus online training and support materials for IBM volunteers that enrich their community work and link IBM's spirit of volunteerism to its on demand strategy.

If the employee uses the solutions and becomes a regular school volunteer, IBM will provide increased levels of technology or cash awards to the school.

School solutions include dynamic classroom presentations, online activities, and hands-on experiments to excite students about math, science and engineering; information on the use of technology in the preschool classroom and guidance on how parents can continue early learning at home; information for parents and community members about keeping children safe online; mentoring information and support from grade school through the university levels; and activities that enable IBM volunteers to assist teachers in exploring and understanding the Internet as a tool for teaching and learning. (IBM)
Partners in Education
A program linking math and science mentors and tutors with students in local schools Freescale received “Partner of the Year” Math Study Group of the Year” and “Individual of the Year” awards this year for the Austin, Texas area. (Freescale)

Spansion partners with three nearby elementary and two high schools by providing funding for student incentives, science and math materials and equipment, and special programs. Volunteers judge science fairs, present career information to students and conduct special partnerships to help students and their families clean up their campuses and develop environmental awareness and commitment. Spansion Scholars are graduating seniors who receive scholarships for top performance in Math and Science. (Spansion)

In the Silicon Valley area, Xilinx partners with Oster Elementary for Rolling Readers, Robotics, Tutoring, ESL, and Junior Achievement, with Union Middle School for AVID, Technical phone support by Xilinx staff, and Smart start. They also partner with Leigh High School. Outside the Bay Area, Xilinx partners with the following schools. (Xilinx)
- Longmont, CO – Flagstaff Academy (charter school)
- Albuquerque, NM – Apache Elementary
- Nashua, NH – Brookline Elementary
- Singapore – Katong School
- Dublin Ireland -

PowerUp
IBM has created a free multiplayer online game, PowerUp (www.powerupthegame.org), challenging teenagers to help save the planet "Helios" from ecological disaster. The game is part of IBM's TryScience initiative and was launched at Engineer's Week 2008 opening on February 16, 2008 in Washington, D.C. IBM Chairman Sam Palmisano served as 2008 EWeek honorary chair, and IBM has supported EWeek since 1991.

PowerUp aims to use kids' interest in fantasy virtual worlds to encourage them to learn about engineering principles by riding over rugged mountains in buggies to build solar towers or searching through grim junk yards to repair wind turbines. They will also learn about energy conservation by the choices they make in completing their missions.

Along with the game, there will be classroom lesson plans associated with the energy transformation topics and an interactive module where kids can learn about 3D technologies to build virtual worlds. To ensure a safe environment, "avatars" will use phrase-based chats to interact in missions. (IBM)
Presentations and Site Visits
Micron regularly hosts teachers to acquaint educators with the connections between the classroom and our workplace. In 2003, Micron leadership organized a community-wide Business Education Exchange. The program, sponsored by the Boise area Chamber of Commerce and the Boise and Meridian, ID School Districts, brings together 100 secondary teachers and 22 businesses for half-day site visits. Teachers learn what businesses and industries require of employees and see how the content they teach has application in work environments. (Micron).

ADI is involved in participation in local schools’ career days, classroom presentations, student shadowing programs and teacher-engineer paired partnerships. They also provide a guest lecturer at a local high school in NH for a Mechanical/General Engineering class, 20 senior high school students. (ADI)

Principal Executive Partnership
TI executives have also teamed up with school principals to provide coaching and apply best practices from the business world through the Principal Executive Partnership, an activity that has been adopted by numerous North Texas corporations through local chambers of commerce. (Texas Instruments)

Project HELP (High Expectations Learning Program)
Through its extended school-year and school day instruction for at-risk students, Project HELP provides an additional 200 hours of instruction to bring students to grade-level performance and beyond. The program utilizes the expertise of the schools’ finest teachers who also benefit by the added compensation and professional development opportunities offered by Project H.E.L.P. Companies have provided funding to bring this academic safety net to Sunnyvale elementary schools. In addition, member companies support Project H.E.L.P. through grants, board involvement, loaned meeting space and other in-kind resources. (AMD, National Semiconductor, Spansion)
Project K-Nect
Through Qualcomm’s Wireless Reach™* initiative and in partnership with the North Carolina Department of Public Instruction and Digital Millennial Consulting, Qualcomm is supporting Project K-Nect. Project K-Nect is a pilot education program using Smartphones with advanced mobile broadband technologies to deliver educational material to 9th grade students in Onslow, Durham and Winston-Salem/Forsyth Counties to improve math proficiency levels in the state. The project will run through June 2008 and be followed up with an extensive research study examining the viability of utilizing Smartphones to increase student achievement in mathematics. The project aims to increase math achievement as measured by proficiency in state testing and improved classroom performance by improving the academic involvement of harder-to-engage students who have struggled with math. It also seeks to dramatically impact the current digital divide by providing supplemental learning through mobile Smartphones with high-speed wireless connectivity to students who otherwise might not have access to a computer at home. (Qualcomm)

* Qualcomm believes access to advanced wireless voice and data services improves people’s lives. Qualcomm’s Wireless Reach™ initiative supports programs and solutions that bring the benefits of connectivity to developing communities globally. By working with partners, Wireless Reach projects create new ways for people to communicate, learn, access health care and reach global markets.

Project Lead the Way
Intel also develops and supports customized programs and initiatives to support local needs in states where Intel has a business presence. In 2007 over $2M funded such initiatives. For example to create interest and experiences in engineering Intel supports partner schools in six states with equipment labs and professional development to implement Project Lead the Way, a nation wide, college prep based high school engineering curriculum and middle school outreach program. (Intel)

Qualcomm supports the California State affiliate, SDSU, to train teachers in the PLTW curriculum and pedagogy. (Qualcomm)

Project Tomorrow
International Rectifier supports Project Tomorrow, a K-12 science collaboration of educators and business leaders, through sponsorship of the organizations annual recognition event for Orange County, CA educators. (International Rectifier)

Qualcomm Career Experience
High school students visit Qualcomm’s corporate headquarters to learn first-hand about life as a Qualcomm engineer. A panel of employee volunteers share their experiences, background, career path, and inspirations. Students also take a tour of Qualcomm high-tech manufacturing facilities. (Qualcomm)
Reading is FUNdamental
Understanding that students cannot succeed in math and science unless they develop strong reading skills at an early age, Spansion supports the programs of Reading is FUNdamental which provides books to 23,000 children in low income schools. (Spansion)

Reading Companion
Reading Companion grew out of IBM's flagship Reinventing Education program, and was launched in 2006. It is IBM's web-based literacy program that uses novel speech recognition technology to help adults and children gain and increase literacy skills. Reading Companion's innovative software "listens" and provides feedback, enabling emerging readers to practice reading and pronunciation as they acquire fundamental reading skills.

The program represents a decade of investment by IBM, which is committed to improving the literacy skills of children and adults around the world. It was developed by IBM Researchers working with IBM partner schools and not-for profit organizations to ensure this technology is effective and easy to use in assisting individual learners to read. Reading Companion's web-based format will bring this technology to tens of thousands in need of assistance, and is currently in operation at over 400 schools and nonprofit organizations around the world.

Reinventing Education
The Reinventing Education grant program is the primary vehicle through which IBM contributes its expertise and knowledge to spur and support school reform efforts throughout the world. Through this $75 million program, IBM has been working closely with teachers, administrators and parents to drive systemic changes through the innovative use of technology. To this end, IBM is contributing more than just money; it is dedicating its world-renowned researchers, educational consultants, and technology. Through these contributions, IBM is finding new ways for technology to overcome deeply entrenched barriers to education in order to improve schools and raise student achievement.

Reinventing Education encompasses 25 sites in the United States, as well as 12 countries throughout the world – Australia, China, Germany, India, Italy, Ireland, Japan, Mexico, Singapore, the United Kingdom, Vietnam, and the State of Rio de Janeiro in Brazil. In the United States, IBM is working primarily with large urban districts (such as New York City, Philadelphia, Detroit, Chicago, Atlanta, Boston) that struggle with a host of educational challenges, including access to technology, as well as with states with large rural populations (Vermont, West Virginia) that traditionally are outside of the technology mainstream.
Each project is working to overcome a specific barrier to school reform, such as the length and structure of the school day and year, how learning is measured, and how language, math and science are taught. Collectively, the projects address nearly every aspect of the education agenda -- from home-school communications, to data management and analysis, classroom instruction, teacher training, and student assessment. The program also includes an interactive Web-based toolkit (www.reinventingeducation.org), based on the work of Harvard Business School Professor Rosabeth Moss Kanter, to help school leaders expand and sustain their reform efforts.

IBM’s efforts are making a difference. An independent evaluation by the Center for Children and Technology found significant student gains in every core academic area in grades 7-11 and reported that many of the technological and educational changes induced by the grants are becoming institutionalized. In addition, researchers from Vanderbilt University found that, as a result of a grant with the Houston Independent School District, first-graders test significantly higher in reading on both word recognition and comprehension tasks.

In 2007, IBM convened an Asia Pacific Reinventing Education Summit in Shanghai, China. Program partners participated, as well as education leaders from 13 countries across Asia. (IBM)

**RESEED**

RE-SEED is a nonprofit dedicated to helping retirees from the technology sector share their knowledge and excitement with local students. (ADI, National Semiconductor)

**Resource Area for Teachers (RAFT)**

RAFT provides needed classroom supplies to teachers for hands-on instruction for students, trains teachers to use hands-on methods for science and math, and effectively recycles corporate discards and overstocked or discontinued products, all while providing an unofficial forum for teacher collaboration. The organization is an integral part of corporate recycling programs, receiving office discards and other in-kind donations for reuse by teachers and nonprofit organizations. In addition, AMD, National Semiconductor, Spansion and Xilinx provide the organization with ongoing financial support and volunteers. (AMD, National Semiconductor, Spansion, Xilinx)

**Rising Star**

TI funds “Rising Star” scholarships, guaranteeing a two-year education to any Dallas County student in the top 40% of his or her high-school class with a financial need (TI)
Rocket Launch
These programs are offered to 4th – 5th grade students in select partner schools. Engineers volunteer to help students design and build small rockets over a series of 6 one-hour meetings, and then one morning to meet and shoot off the rockets in a controlled environment, measuring height and distance of travel. The students are given awards for their hard work. (Freescale)

Santa Clara University – Raising and Ethical Child
The programs offered by Santa Clara University include a parenting series called Raising an Ethical child. These classes are open not only to the employees but to instructors at Oster Elementary, Union Middle and Leigh High who are dealing with at risk families with the hopes of keeping these students involved in school and getting the support they need from the community to be successful. In order to facilitate the opportunity for parents to attend we provide free child care onsite at the Xilinx campus while the sessions are taking place. (Xilinx)

SAT/ACT Math Tutoring
Micron engineers provide weekly Saturday morning math tutoring to assist students who are preparing to take the PSAT, SAT or ACT tests. Sessions are held in a local high school and open to any students in the Boise, ID vicinity. (Micron)

Schmahl Science Workshop
A Schmahl Science Workshop (SSW) is a partnership of students, parents, teachers, scientists and engineers with an excitement about science. SSW provides hands-on science workshops to schools that do not have the resources to include science as a regular part of their instructional program. Schmahl Science also provides teacher development workshops as well as weekend workshops for corporate and community events. Spansion supported the funds for SWW to purchase their bio diesel SciVan to transport over 500 K-12 workshop kits and associated equipment to over 8,500 students a year (a 66% capacity increase over the previous year). (Spansion)

School Supply Drives
Freescale employees donated school supplies and volunteered their time to support under-served children getting the needed supplies to start school. They participated in the Salvation Army Pack-to-School Supply Drive, the Manos de Cristo “Back to School Program”, and the “For the Children” annual drive addressing 10 Central Texas School districts. (Freescale)
Science Buddies
Through this online mentoring program, scientists and engineers volunteer as advisors to help students in grades 7-9 complete science fair projects. The young “explorers” get the help they need as their high-school mentor and industry advisor guide them through successful completion of their project using a powerful online project management tool. By working with industry volunteers, students also gain a better understanding of how science is applied in the workplace, thus strengthening the school-to-work connection for students.

Science Buddies is a non-profit organization empowering students from all walks of life to develop a love of science and an understanding of the scientific method. With the help of mentors and advisors, Science Buddies helps students improve their science skills and literacy, and inspires them to consider additional study or careers in science. (AMD, National Semiconductor)

Science Discovery Museum
Designed for Elementary, Middle, and High School students in the Boston, Massachusetts area. The Science Discovery Museum offers powerful interactions with hands-on physical science exhibits that elicit curiosity and encourage observation, questioning, testing, and sharing ideas. (ADI)

Science Expeditionary Force
Freescale provides sponsorship to the Science Expeditionary Force in Austin, Texas. The Science Expeditionary Force is working to improve current elementary school science curriculum by bringing innovative standards based science programs into the classroom. (Freescale)

Science in Action Initiative
For most teachers, the greatest barrier to reforming science curriculum is lack of time for planning. National Semiconductor is proud to support professional development through $750,000 in grants to our Science in Action Partners, science education experts in our key U.S. communities:

- **California (Silicon Valley)**
  - Santa Clara County Office of Education
  - RAFT- Resource Area for Teaching
- **Maine (entire state)**
  - Maine Mathematics & Science Alliance
- **Texas (Tarrant County)**
  - Arlington Independent School District
  - Mansfield Independent School District
The second greatest barrier for science teachers is a shortage of materials and resources. National Semiconductor’s Science in Action Awards provide up to $2,000 for individual classrooms and up to $5,000 for groups to purchase tools for hands-on science projects. In total, more than $300,000 in grants will be given to support classroom hands-on science activities. (National Semiconductor)

**Science Screen Report (SSR), Austin**
Freescale provides a DVD series focused on science and technology to elementary and middle schools in five surrounding school districts. (Freescale)

**Site Visits**
Micron provides visits to its facilities with presentations customized to meet specific learning objectives for students in grades 7-12. Additionally, Micron offers specialized site visits for students of partner schools who have the opportunity to pursue pre-engineering curricula like Project Lead the Way or electronics courses. These site visits allow students to see application of the content they are learning in the classroom. (Micron)

**Skillpoint Alliance**
AMD has been an active partner with Skillpoint Alliance whose mission it is to build partnerships among industry, education and the community, thus leading to college and career success for Central Texans, while meeting employers’ needs for a qualified workforce.

AMD supports Skillpoint’s College and Career Fair, Educator Colloquium, as well as, Summer Teacher Institutes. Furthermore, AMD provides leadership on the Texas Technology & Education Executive Council. (AMD)

**SkillPoint Alliance Summer Institute & Quality Educator Programs**
Skillpoint provides high quality, industry directed educational opportunities for students and curricula development workshops for teachers every summer. Spansion has taken a leadership role in developing special sessions on cellular and digital communications, participating on the Technology and Education Executives Council and sponsoring integrated physics and chemistry programs for students transitioning to high school. Spansion also participates in the College and Career fair for more than 900 students from area high schools. (Spansion)

**Southwest Center for Education and the Natural Environment (SCENES), Arizona**
This program promotes environmental education through intensive, discovery-based, science research experience for high school students. (Freescale)
Solar System Unit
ADI organizes and delivers a unit on the solar system to entire 4th grade, approximately 700 children, of Wilmington, MA, designed to get students in this early grade excited about science. (ADI)

Spark a Passion for Science and Math
In 2007 Micron hosted its first workshop for elementary teachers hosting the entire faculty from a math/science magnet school. Teachers learned how to incorporate appropriate Micron lessons into their curricula to enhance their science program. (Micron)

St. Edward’s University School of Education
To help teachers integrate technology in their classrooms, AMD partners with St. Edward’s University School of Education to support the Building Team and Tools for Teaching (BT3) project. This project provides technology training to intern and mentor teachers in the Austin Independent School District (AISD) and surrounding districts. More than 80 intern and mentor teachers attend a 60-hour summer institute and develop technology-infused lesson plans that will be implemented in fall and spring classes (AMD)

Sunnyvale School District
AMD-Sunnyvale first partnered with the Sunnyvale School District in 1989 when it began a comprehensive effort to help address the needs of the district’s middle school students at Sunnyvale Middle School. The partnership expanded in 1994 with the opening of Columbia Middle School. At both schools, AMD has sponsored programs before and after school to help provide safe and enriching activities for students, as well as homework support and tutorials, during their parent's traditional work hours. In addition, AMD provides funding for targeted academic programs. Recently AMD supported the schools’ efforts to improve math achievement by supporting implementation of a computer-based interactive algebra program at both schools. Volunteers from AMD help at a variety of events throughout the school year. Through these and other programs, AMD is helping to improve student attendance and reduce juvenile crime in the neighborhoods around the partner schools, and is working to ensure that students gain the skills necessary for future success. (AMD)

T³ (“T-Cubed”), Teachers Teaching with Technology™
Through T³ (“T-Cubed”), Teachers Teaching with Technology™, Texas Instruments provides professional development services to help schools and teachers improve teaching and learning through the successful integration of handheld technology into the classroom. Begun in 1986, T³ has reached over 100,000 teachers worldwide through 1- to 5-day math and science workshops. And today, T³ is expanding to offer courses beyond math and science, as well as offering online, self-paced course delivery. (Texas Instruments)
**Teacher Internships**
Through the Dallas/Fort Worth Semiconductor Executive Council, Micron participates in a summer internship opportunity for teachers. (Micron)

**Teacher Recognition**
National believes that to truly impact education, we must focus our support on teachers. National honors outstanding California teachers by providing stipends for teachers selected through the California Department of Education's Teacher of the Year Recognition Program and the Santa Clara County Office of Education's Teacher Recognition Program. (National Semiconductor)

**Technology and Equipment Grants Schools**
Intel sites provided equipment donations to computer labs and classrooms to enable rich content and online tools and simulations to enhance teaching and learning. In 2007 over $1M worth of equipment was donated in Intel communities. (Intel)

**Texas BEST (Boosting Engineering, Science and Technology)**
Since the early 1990s, TI engineers have been helping high school students put their competitive spirit to work in a robotics competition called Texas BEST (Boosting Engineering, Science and Technology) that challenges students to build remote-controlled robots. Each year the competition attracts entries from nearly 700 middle and high schools and more than 8,000 students across several states each fall. (Texas Instruments)

**TI Math Scholars**
The TI Math Scholars program at the University of North Texas Dallas Campus aims to add the pool of qualified math educators by offering full scholarships with book stipend, to students pursuing their Bachelor of Arts degree in Mathematics with Secondary Certification at the UNT Dallas Campus. The students will teach in Dallas ISD or select neighboring school districts for a minimum of two years in return for this scholarship opportunity. (Texas Instruments)

**¡TradúceloAhora!**
¡TradúceloAhora! (Translate Now!), is a software program that translates e-mails and Web pages bi-directionally (English-to-Spanish and Spanish-to-English). The easy-to-use technology provides a pathway to help Hispanics facilitate their interaction with the community at large. In practice, Spanish-speaking parents can use ¡TradúceloAhora! to e-mail their child's teacher in their own language. This keeps parents involved in their children's progress which is critical to a child's success. In the classroom, Spanish-speaking students can use the translation capability on Web pages to keep up with classroom curricula while they learn English. (IBM)
Transition to Teaching
In September 2005, IBM announced that it will help address the critical shortage of math and science teachers to assure that every child has the best preparation in math and science by leveraging the brains and backgrounds of some of its most experienced employees, enabling them to become fully accredited teachers in their local communities upon electing to leave the company.

The IBM Transition to Teaching program began as a pilot in January 2006 and currently has about 100 participants. Eight IBMers have graduated from the program and have become math and science teachers. We have participants in 17 states and are working on teacher certification policy in nine states. IBM is reimbursing participants up to $15,000 for tuition and stipends while they student teach, as well as providing online mentoring and other support services in conjunction with partner colleges, universities and school districts. (IBM)

Treasure Valley Math and Science Center
Now in its third year of operation. With a $1 million donation from the Micron Foundation, local school districts have teamed with industry and community partners to develop this exciting school. The program provides a facility and programs to enhance educational excellence in the areas of science, math, and technology by encouraging inquiry-based learning, high-level thinking, discovery, and research. (Micron)

TryEngineering
IBM is the technology partner of TryEngineering, a web site owned by IEEE (Institute of Electrical and Electronics Engineers, Inc.). Designed to appeal to a wide range of audiences, TryEngineering’s goal is to inform teachers, school counselors, parents, and students about engineering and what engineers do. The site combines interactive activities with valuable information on careers in engineering. (IBM)

TryScience
TryScience at www.tryscience.org, the first worldwide science and technology center, is a collaboration of the New York Hall of Science, IBM, and the more than 600 member institutions of the Association of Science-Technology Centers. TryScience, which is available in nine languages (Arabic, Chinese, Dutch, English, French, Italian, Japanese, Portuguese and Spanish), offers a virtual means for people to gain access to and discover the science presented by museums around the world through interactive exhibits, multimedia adventures, and live camera “field trips.” TryScience also provides hands-on science projects that children, parents, and teachers can do at home or in school.
TryScience features “The Grid,” interactive online and interactive activities, inspired by another IBM community program called World Community Grid (www.worldcommunitygrid.org), a public computing grid focused on humanitarian research. The activities are a dynamic and fun way to teach children about grid computing, an innovative technology that is becoming more and more common in business, education and other sectors of our society; at the same time, the activities encourage students to join World Community Grid, teaching them the importance of civic involvement and giving back to their communities.

A special view for teachers, compiled by the National Science Teachers Association Webwatchers' Team, correlates many of the TryScience experiments with National Science Education Standards and SciLinks codes. The view also provides advice on how to use TryScience's hands-on activities to augment the core curriculum and to deliver key concepts. (IBM)

UC Math and Science Initiative
In some instances state initiatives can serve as national models and demonstration projects. Intel committed $2M to just such an initiative, the University of California Math Science Initiative which will produce 1,000 highly qualified science and mathematics secondary school teachers annually by 2010. (Intel)

“Un Sabado Gigante in Engineering” in Texas
It is a one-day program designed to inspire 500 plus middle school students about engineering and science. The program is open to all middle school students with a priority on Hispanic students. The focus of the program is to expose and inspire students to the opportunities in Engineering and Science; therefore, the attendee requirements are not based on school grades. There will also be a simultaneous program for parents to educate them on the advantages of a college education. Sponsored by Freescale’s Employee Resource Group HEAT (Hispanic Education and Awareness Team).

Visioneering
TI sponsors a one-day “Visioneering” event for middle school children where they work hand in hand with engineers to solve a problem and learn the marvels of engineering.

Volunteer Matching Grants and Community Giving Campaigns
Intel - Over 11,000 Intel employees gave over 46,000 hours of volunteer service which resulted in almost $3M in volunteer matching grant funding to local schools, colleges and universities and community organizations supporting education programs. Intel's Annual Community Giving Campaign of employee matched donations to charitable organizations totaled over $18M dollars in 2007.

IBM - The IBM Matching Grants Program enables employees and retirees to increase the value of their donations to higher education
institutions, hospitals, hospices, nursing homes, and cultural and environmental organizations with a matching gift from IBM. The program has been enhanced for the first time to offer participating universities a selected set of solutions and services, in addition to the hardware and software products available previously. This aligns the program more closely with IBM’s strategic initiatives as a global provider of services and technology solutions.

The IBM Pre-K/K-12 Matching Grants Program is a special program that enables employees and retirees to contribute selected IBM equipment and software to eligible K-12 schools of their choice. This program is unique among corporate Matching Grants programs both in its focus on K-12 education and in its grounding in technology.

In 2007, more than $8 million in cash and $6 million in equipment were donated through the program to almost 6,000 institutions across the U.S.

**National Semiconductor**
Through National Semiconductor’s Giving Program, employees can receive a company match of personal donations up to $1500 per fiscal year. In addition, employees can receive $500 grants for the organizations in which they volunteer their time. Last year alone, $952,000 was donated to 972 nonprofit organizations and accredited schools through National's Giving Program.

**“Women in Technical Careers”**
Designed to address the under-representation of women in STEM careers, WITC offers lunchtime career panel presentations for female students grades 9-12 in the Boise, Idaho, area. Women from Micron, HP, iLEVEL by Weyerhaeuser, the Society of Women Engineers, and Boise State University College of Engineering, make up the panels. They address issues young women face in engineering and other high tech career paths. (Micron)

**Writing in the Workplace**
Provides samples of the use of technical writing at Micron with materials teachers can use as they develop technical writing curricula. (Micron)
Youth Science Institute
YSI focuses on hands-on learning of life sciences, physical sciences and social sciences, including biology, chemistry, physics, geology and astronomy. Programs are conducted at its three Science and Nature Centers in Vasona, Sanborn and Alum Rock parks, in schools and at community events. Centers feature live mammals, birds, insects, amphibians and reptiles in some combination.

YSI's science education methods develop the critical thinking skills that are necessary for a child’s academic success, which ultimately impacts his or her opportunity for economic success. In addition, YSI programs help children understand and appreciate the delicate interrelationships between themselves and the world around them. This inspires them to be involved citizens, developing their capacity to contribute to their local community and the health of the planet. (Xilinx)
Web Based Resources Recommended
By Member Companies

Advanced Placement Digital Library/Rice University - http://apdl.rice.edu
Center for Advanced Learning - www.thecenterforadvancedlearning.org
Central Texas sustainability Indicators Project Education Survey www.centex-indicators.org
Central Texas Engineers Week - www.centexeweek.org
Challenger Learning Center of Colorado Springs - www.clccs.org
Discovery Science Center Museum - www.dcsm.org
Eternal Egypt - www.eternalegypt.org
George Lucas Educational Foundation - http://www.edutopia.org/
Girls Inc. - www.girlsinc.org
Hermitage Museum - www.hermitagemuseum.org
IISME - www.iisme.org
Junior Achievement - www.ja.org/nested/santaclara
Just for the Kids - www.just4kids.org
KidSmart Guide to Early Learning & Technology - www.kidsmarterlylearning.org
MATEC - http://www.matec.org/
MATHCOUNTS - www.mathcounts.org
Mentor Place - www.mentorplace.org
MESA - www.mesa.ucop.edu
Micron for Students - www.micron.com/students
Micron K-12 Resources - www.micron.com/k12
Micron Lesson Plans – www.micron.com/k12/lessonplans/
Micron Math in the Workplace - www.micron.com/k12/math/
Mind Institute - www.mindinst.org
National Semiconductor’s Science in Action - www.nsawards.com
Project HELP - www.project-help.org
Project Tomorrow - www.tomorrow.org
PowerUp - www.powerupthegame.org
Reading is FUNdamental-Austin - www.rifaustin.org
Reading Companion – www.readingcompanion.org
Schmahl Science Workshop – www.schmahlscience.org
Smithsonian National Museum of African American History and Culture – www.nmaahc.si.edu
The Education Trust - www.edtrust.org
TraduceloAhora - www.traduceloahora.org
TryEngineering - www.tryengineering.org
Try Science - www.tryscience.org
Writing in the Workplace - www.micron.com/k12/writing/
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International Rectifier: Mesa
National Semiconductor: Chandler, Phoenix, Tucson
Texas Instruments: Tucson

California:
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Analog Devices: San Diego, San Jose
Freescale: Irvine, San Diego, San Jose,
IBM: Costa Mesa, Irvine, San Jose
Intel: Santa Clara, Berkeley, Folsom, Fremont, Irvine, El Segundo, Milpitas, Newark,
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IBM: Colorado Springs
Intel: Fort Collins, Colorado Springs, Lafayette, Lakewood
LSI: Boulder, Colorado Springs, Fort Collins, Longmont
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Connecticut:
Intel: Danbury

District of Columbia:
Intel: Washington, D.C.

Florida
AMD: Orlando
Freescale: Boca Raton
Intel: Miami
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Georgia:
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Maryland:
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Massachusetts:
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Analog Devices: Cambridge, Norwood, Wilmington
IBM: Waltham
Intel: Acton, Cambridge, Hudson
LSI: Waltham
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Michigan:
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Minnesota:
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Mississippi:
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New Hampshire:
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New Mexico:
Intel: Rio Rancho

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Micron: Texas
National Semiconductor: Arlington
Texas Instruments: Austin, Dallas, Sherman, Plano, Stafford
Utah:
Intel: Riverton

Vermont:
IBM: Burlington

Virginia
Intel: Chantilly, Herndon

Washington:
AMD: Bellevue, Redmond
Analog Devices: Vancouver
Freescale: Bothell
Intel: Bellevue, DuPont, Seattle
National Semiconductor: Federal Way

Wisconsin:
Freescale: Brookfield