Program Name	Curriculum/after school/extracurricular	Grade Level	Contact	Website Address	Description
4 H Council	After School	K-12	Dianna Campbell Director, Corporate Relations National 4H Council 7100 Connecticut Ave Chevy Chase, MD 20815 dcampbell@fourhcouncil.edu P- 301-961-2961	www.4-H.org	The 4-H Youth Development Program—with its direct connection to the research and resources of the Cooperative Extension System's 106 land-grant universities and colleges—is strategically positioned to strengthen US global competitiveness and leadership. 4-H will address our nation's critical challenge by preparing 1 million new young people to excel in science, engineering, and technology by 2013. Currently, 4-H Science, Engineering and Technology programs reach more than 5 million youth with hands-on learning experiences to encourage young minds and fill the pipeline of young leaders proficient in science.

Texas Instraments		All points in the pipeline	Torrence H. Robinson Texas Instruments Public Affairs t-robinson4@ti.com P - 214.480.6823	ti.com	For TI, educational excellence is an imperative – a critical building block for economic vitality and for the quality of life in communities where we live and work. The need for technologically skilled people continues to escalate not only at high-technology companies, but also at universities that are helping to develop new technologies and teach the next generation of business leaders. America is at a crossroads, both in terms of how it responds to the competitive pressures of a worldwide economy and in terms of the focus and priority it gives to ensuring that all students are prepared with the math, science and literacy skills needed to succeed in that economy. For example, the supply of U.S. electrical engineers has been limited. This not only affects the

Analytical Integrated Mathematics (AIM)	Cirriculum	9-12	Donna McEthan Analytical Integrated Mathematics (AIM) Waco Independent School District dmckethan@wacoisd.org (254) 755-9574	www.wacoisd.org	Analytical Integrated Mathematics is a Career and Technical Education course where students solve and model robotic design problems. Students use mathematical methods to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming.

National Math and Science Initiative- Advanced Placement Training and Incentive Program (APTIP)	Teacher Education	K-12	John Winn Chief Program Officer National Science and Math Initiative (NMSI) jwinn@nationalmathandscience.org 214.665.2541	http://www.nationalmathandscience.org/	Advanced Placement* Training and Incentive Program (APTIP) NMSI is in the process of replicating across the country an AP Training and Incentive program (APTIP) originally developed by AP Strategies in Dallas, TX. The goal of the training and incentive program is to increase significantly the number and diversity of students taking and passing math, science, and English Advanced Placement Exams in high school. In order to implement the NMSI APTIP, a strong public private coalition must be created in each state. The program provides for extensive formal and informal training of teachers, additional time on task for students, open enrollment and active recruiting to provide opportunities for students from diverse

U Teach	Teacher Education	College	The University of Texas at Austin College of Natural Sciences Office of Special Projects (512) 232-2770	http://uteach.utexas.edu/	UTeach started at The University of Texas at Austin in 1997 as a new way to prepare secondary science, math and computer science teachers. Its strength lies in the unique collaboration between the Colleges of Natural Sciences and Education. If you are an undergraduate who wants to teach, a college graduate who wants to return for certification, a new teacher who wants a supportive community, or an experienced teacher who wants an advanced degree, then UTeach is for you.

Whyville	Computer game	Teen and Pre-teen	Cliff Zintgraff Whyville/Numedeon, Inc. cliff@whyville.net (210) 274-2485	www.whyville.net	Whyville is a virtual world where boys and girls from all over the real world come to chat, play, learn, and have fun together. You design your face, earn clams by playing games, hang out at the beach, and go to town events at the Greek Theater. You can start your own business, buy a car and give your friends a ride, or write for the town newspaper.

Project Lead the Way	Cirriculum	9-12	Richard Blais VP of State and Corporate Relations Project Lead The Way 747 Pierce Road Clifton Park, New York 12065 blaisrr@att.net 518.877.6491 Ext 315	www.pltw.org	Description: Project Lead The Way, Inc., a 501(c)(3), not-for-profit organization, was created to address the projected shortage of engineers and engineering technologists in New York State, but now exists in all 50 states and the District of Columbia. Project Lead The Way® (PLTW) pre-college engineering curriculum offers five 9 week integrated units of study at the middle school level called Gateway To Technology® and eight full year courses called Pathway To Engineering™ at the high school level. Project Lead The Way® Mission: is to create dynamic partnerships with our nation's schools to produce an increasing and more diverse group of students to be successful in science, engineering, and engineering technology at

Alamo Aerospace Academy	Cirriculum	9-12	Joseph Wilson Kelly Aviation Center joe.a.wilson@lmco.com 210-928-5192	http://www.accd.edu/district/atcp/aaaa/index.htm	Prepare for a bright future with a hogh paying career with the academies. The Alamo Academies provide education, experience and job opportunities for high school students looking to jumpstart their future. They are designed to provide two-year training and internship programs that introduce qualified students to career opportunities in key industries while providing a seamless transition from high school to college to the workplace. With three specialized academies to choose from our sudents recieve free college level training in high wage demand occupations, whi;e at the same time completeing college.

National Alliance for Partnerships in Equity			Freda Walker National Alliance for Partnership and Equity STEM Equity Pipeline Consultant fwalker@napequity.org 530-467-3913 office/home 530-598-5767 cell	http://www.stemequitypipeline.org/Default.aspx	The National Alliance for Partnerships in Equity is a national organization committed to the advancement of equity and diversity in classrooms and workplaces. In 2002, NAPE established the NAPE Education Foundation, Inc. in response to requests by education and workforce agencies for assistance with program improvement efforts.

Texas Engineering and Technical Consortium/FIRST	Collegiate guidance, professional development, high school outreach, grant distribution, best practice replication	Post-high school graduation	John Shellene TETC Executive Director 214.273.3701 Jshellene@tetc.us	www.tetc.us	TETC is a collaboration of the State of Texas, institutions of higher education, and engineering related companies. TETC's mission is to increase the number of graduates in engineering and computer science from Texas universities to meet the state's increasing market demands.

TBEC			Michael Braswell	http://tbec.org/	TBEC was formed by Texas business leaders to engage with educators in a long-term effort to improve public education in Texas. Since its formation in 1989, TBEC has become one of the state's most consistent and important forces for improving education in the state.

National Council for Advanced Manufacturing	Career Couseling	9-12	Mr. Fred Wentzel Dir. of Member & Government Relations National Council for Advanced Manufacturing 2025 M St NW Ste 800 Washington, DC 20036-2422 wentzelf@nacfam.org (202)367-1247	http://www.nacfam.org/	The U.S. economy depends on advancing the knowledge and skills of American workers throughout their careers. While the workforce needs of manufacturers change rapidly, the U.S. public workforce system – with origins in the 1930s and 40s – distributes nearly $10 billion dollars through programs that emphasize “push” training to unemployed workers. Through reform of the Workforce Investment Act, more robust inner- and intra-agency coordination, and the integration of workforce development with economic development and regional innovation initiatives, NACFAM believes that manufacturing stakeholders can collaborate to create a more “pull-based” system. Furthermore, emphasis must be placed on the
Department of Labor			Frank Stluka Dept. of Labor Stluka.frank@dol.gov		

Texas Workforce Solutions				http://www.twc.state.tx.us/twcinfo/twsolutions.html	The Texas Workforce Commission (TWC) strengthens the Texas economy by providing the workforce development component of the Governor's economic development strategy. Texas boasts an incredibly skilled workforce ready to attract enterprise to the Lone Star State. By focusing on the demands of employers, TWC gives Texas the competitive edge necessary to draw business here. TWC is the state government agency charged with overseeing and providing workforce development services to employers and job seekers. For employers, TWC offers recruiting, retention, training and retraining, and outplacement services, as well as valuable information on labor law and labor market statistics. For job

National Center for Women & Information Technology		K-12	Lucinda Sanders CEO and Co-founder National Center for Women & Information Technology Lucinda.Sanders@Colorado.EDU 303-735-5108	ncwit.org	NCWIT's work leverages the efforts of organizations across the country, and connects efforts to increase women's participation in IT along the entire pipeline, from K-12 and higher education through industry and academic careers. NCWIT encourages its members to undertake institutional change within their organizations, and our work provides them with the tools and support to be change agents.

National Alliance for Partnerships in Equity Education Foundation			Freda Walker National Alliance for Partnership and Equity STEM Equity Pipeline Consultant fwalker@napequity.org 530-467-3913 office/home 530-598-5767 cell	napequity.org	NAPE promotes programs and policies that reduce barriers commonly found in education and workforce development systems. NAPE provides members with a network of information, resources and technical assistance. NAPE promises resources to support education equity at the state and local level.

SeaPerch	curriculum	K-12	Susan Giver Nelson, CMP, CAE Director of Outreach and Strategic Development The Society of Naval Architects and Marine 601 Pavonia Avenue, Ste 400 Jersey City, NJ 07306 www.sname.org Cell: 412-400-2582 snelson@sname.org	www.seaperch.org	SeaPerch provides students with the opportunity to learn about robotics, engineering, science, and mathematics while building an underwater ROV as part of a science and engineering curriculum. Throughout the project, students will learn engineering concepts, problem solving, teamwork, and technical applications, as well as having the opportunity to participate in an end-of-the-term design competition. This program teaches students how to build an underwater robot, how to build a propulsion system, how to develop a controller, and how to investigate weight and buoyancy. The remotely operated vehicles (ROVs), which are made with PVC pipe and other small parts, are housed in a plastic

Louis Stokes Institute		College	Kathryn Kailikole kathryn.kailikole@coenet.us Council for Opportunity in Education 1025 Vermont Ave. NW Suite 900 Washington, DC 20005 (202) 347-7430	http://www.coenet.us/ecm/AM/Template.cfm?Section=About_The_Institute&Template=/CM/HTMLDisplay.cfm&ContentID=5883	The mission of the Stokes Institute is to expand opportunity for low-income, first-generation, and minority students in science, technology, engineering, and mathematics. Its goals are to increase the capacity of educators to assist these students in achieving success in STEM disciplines, and to grow the STEM educational pipeline.

Rocket Science Tutors	After School	8th Grade	Nino Polizzi, Founder, Rocket Science Tutors polizzi@uspacenet.com	www.rocketsciencetutors.com/	RST works under the direction of the teaching staff to reinforce lesson plans in a weekly after-school session structured to excite students about "aerospace" applications of math being learned in the classroom. Our purpose is to support the teacher by first helping students learn the classroom material and then to gain an appreciation of this material through discussions, examples and sample problems. The main themes introduced/reinforced throughout the sessions are "Math is a Tool", "Math is the Language of Science" and "Science and Engineering Create Our World".
DOL Wired Project					
STEMCAP					

STEMTRAX			Victoria Connor, Consultant, CSEWI		To improve the partnership between aerospace industry and universities in the California Innovation Corridor to 1) enhance the California academic community's aerospace-related education and 2) increase the amount of highly-trained technical and professionally developed students capable of meeting California's aerospace workforce needs.
Aerospace Workforce Project					

Georgia Prism Program	Cirriculum and teachers	p-12	Sheila Jones PRISM Project Director Rosalind Fowler PRISM Public Awareness and Director	http://www.gaprism.org/index.phtml	The Georgia Partnership for Reform in Science and Mathematics (PRISM) is an initiative of the University System of Georgia designed to increase science and mathematics achievement for all P-12 students in order to improve their readiness for post-secondary education and careers by enhancing teacher quality, raising expectations for all stakeholders, and closing achievement gaps. Awarded to the University System of Georgia in 2003, the initiative is funded by a five-year, $34.6 million grant from the National Science Foundation (NSF) and is scheduled to be funded through the school year of 2008. PRISM is working actively in four diverse regions (Metropolitan Atlanta,

BEDC			Shawn Loescher Business Education Direct Connect	http://www.sdccte.org/index.php?q=node/8/	Your Future Workforce <-> Our Current Student Body Every business takes part in the development of their future workforce. The only choice a business has is when to become involved—at the beginning or end stage of the process. What will your choice be; proactive or reactive? The benefits are clear: a career-minded, innovative, knowledge-based worker for every industry that will keep our local economy vibrant and your business strong. Becoming involved is easier than you think. With three levels of participation, Mentor-Advisor-Sponsor, there is a fit that is right for you.

A World in Motion® (SAE International)	Cirriculum	Grades 3-10	Matthew M. Miller Manager K-12 Education Programs SAE International 400 Commonwealth Drive Warrendale, PA 15096 Phone: 724.772.7504 Email: matt.miller@sae.org	http://www.awim.org/	SAE International's A World In Motion® program, now in its 19th academic year of distribution, makes the challenges of math and science exciting by bringing authentic engineering design experiences into elementary and middle school classrooms. The AWIM® program is comprised of a series of nine curricula, referred to as "Challenges", designed for students in grades 4 -10 which use highly interactive learning experiences that incorporate the laws of physics, motion, flight, and electronics. Each of the AWIM Challenges is designed around current math, science, and technology standards. In January 2009, SAE released a new activity, the A World In Motion Fuel Cell Challenge, an educational
Team Defend/HS Cyber Competition			Scott Kennedy, SAIC		

San Diego Science Festival	Festival	All ages	Larry Bock Event organizer	http://sdsciencefestival.com/	The Inaugural San Diego Science Festival will unite our community to showcase the Science & Innovation that makes San Diego unique! Join us for the first full-scale celebration of Science the West Coast has ever seen! The month-long event celebrates the Science and Innovation all around us with events, lectures, and activities countywide to engage all audiences from students, to teachers, to parents, to science professionals, or anyone that is just curious. The center point of the festival is the Expo in the Park, an all-out celebration of science exploration and discovery that will be held in conjunction with The Science and Engineering Fair. The San Diego Science

Mason Summer Festival	Festival	All ages	Kevin Murray kmurra3@gmu.edu	www.masonfestival.org or www.gmu.edu/cfa	Our mission is to create, innovate, and educate. We celebrate those creative individuals and organizations throughout the Northern Virginia region that are dedicated to the arts and sciences. We encourage innovation, self-expression, diversity, and shared dialogue among professionals, students and members of the community. We provide a nurturing environment for education for all ages.

Space Generation	After School	College Level	Loretta Whitesides 626 429-6603 loretta@spacegen.org	www.yurisnight.net www.spacegen.org/usa	Through performance, exhibition, and demonstration, in concert halls, classrooms, galleries, theaters, studios and laboratories, we inspire artists and innovators, and help prepare the next generation for the challenges of the 21st century.

Business Higher Education Forum	Research		Chris Roe chris.roe@bhef.com	www.bhef.com	BHEF is an organization of Fortune 500 CEOs, prominent college and university presidents, and foundation leaders working to advance innovative solutions to our nation's education challenges in order to enhance U.S. competitiveness. America's advantage over its international counterparts in science, technology, and innovation is diminishing. In response to these challenges, BHEF launched Securing America's Leadership in Science, Technology, Engineering and Mathematics (STEM Initiative) in June 2005 to help ensure that America remains a global leader. Led by Co-Chairs Warren Baker, President of the California Polytechnic State University, San Luis Obispo and William Swanson, Chairman

Engineering and Engineering Technology Degrees at the Tribal Colleges and Universities	Undergraduate engineering education	College prep through bachelor of science degree in engineering	Lee Snapp Director, TCU Engineering Initiative Salish Kootenai College PO Box 70 Pablo, MT 59855 (406) 275-4716 Lee_Snapp@skc.edu	This program encompasses eleven of the nation's tribal colleges and universities and does not have a single, dedicated program website	Engineering and engineering technology are degree fields of growing interest and importance to the nation's Native American colleges and universities. Eleven of these tribal colleges are working together to develop, implement, and sustain engineering curricula at the associate's and bachelor's degree levels in a variety of specialties. These colleges wish to provide all interested and qualified Native American students an opportunity to progress from any necessary pre-college preparation through a fully-accredited engineering or engineering technology degree entirely within the tribal college and university system, or by transfer to a nearly mainstream institution. The colleges have developed a detailed Management Plan, available

Apollo to the Moon	Theatrical performance, in school or other venue	3 versions of the show, 1 - 3, 4 - 6, 7 - 12 and adult	Kevin Reese Apolloapb@aol.com	www.schoolsculptures.com, click on "the performance"	The daring and drama of America's quest for space comes to life in this solo presentation, in which Kevin Reese's dynamic performance is complemented by more than 100 NASA photographs, original downlink broadcasts from space, and music of the 1960's. Apollo: to The Moon has been presented at the Kennedy Center, National Air and Space Museum, NASA Headquarters, Goddard Spaceflight Center, and countless other schools and venues throughout the country. Discussion and audience interraction are included, depending on the age of the audience. Teacher guides are provided.
Math Education Programs at UCONN	After School		Kathy Gavin		

Girls Sumer Engineering Program at UCONN	Summer Camp	7th and 8th grade girls	Chris Joliat		
Real World Design Challenge	Annual Event	9-12	Ralph Coppola rcoppola@ptc.com	http://www.scied.science.doe.gov/RWDC/index.html	The Real World Design Challenge (RWDC) is an annual event that provides high school students, grades 9 – 12, the opportunity to work on real world engineering challenges in a team environment. Each year, student teams will be asked to address a challenge that confronts one of our nation's leading industries. Students will utilize professional quality computer-aided design software to develop their solutions and will also generate presentations that convincingly demonstrate the value of their solutions. The RWDC provides students with opportunities to apply the lessons of the classroom to the technical problems that are being faced in the workplace. The precise nature of the Challenge will change from

FMA Live with Honeywell	After School Concert	5-8	Ed Yarbrough ed.yarbrough@honeywell.com	fmalive.com	FMA Live! strives to engage middle-school students in math and science through a live, ground-breaking stage show that travels cross-country demonstrating the amazing science in kids' everyday lives. Featuring high-energy actors, music, video and demonstrations FMA Live! teaches Forces and Motion and the process of scientific inquiry in an innovative, entertaining, and memorable way. FMA Live! not only delivers solid science that supports the learning objectives of the National Science Education Standards for grades 5-8, but also helps kids learn that science is key to understanding the world around them.

LookOut! Magazine	Curriculum Supplemen	8-Jun	Evangeline Rich Phone: (410)467-7835 x493 Email: erich@wordsandnumbers.com Address 2050 Rockrose Avenue, Baltimore, MD 21211	www.wordsandnumbers.com or www.lookoutscience.org	LookOut! is a science education magazine targeting middle school students. It is designed for easy integration into the classroom, but will also be able to stand on its own as a high-interest magazine. The specific focus of the magazine is on the role science plays in issues relating to homeland security. The magazine's main goals are: a) To inform students about the research and development of technologies that help keep our country safe. b) To provide accurate and interesting science content for students. C) To encourage students to consider pursuing eventual careers in STEM.