

## STEM Resources for Educating Gifted Students

Go to this Web Site for the online links for these organizations:

[www.GiftedEdPress.com/STEMLINKS.pdf](http://www.GiftedEdPress.com/STEMLINKS.pdf)

Compiled by Gifted Education Press of Manassas, Virginia 20109

### Supplement to *STEM Education for Gifted Students* (2011) by Harry T. Roman

(This list will be updated periodically. If a link doesn't work, try copying and pasting it into your browser's http area.)

Academy for Math, Engineering & Science: Secondary Education Partner of the University of Utah, Salt Lake City, Utah <http://bit.ly/sJMWAs>

Academy of Applied Science: Fueling the Spark of Genius – Sponsors numerous programs for teachers, students and inner city youth in STEM areas. <http://bit.ly/7PIGBg>

Accord Institute STEM Education Model <http://www.accordeducation.org/website/>

Advanced Technology Academy of Dearborn, Michigan – STEM education at the elementary, middle and high school levels in partnership with the Ford Motor Company. <http://www.atafordpas.org/>

Aggie-STEM (Texas A&M University) – Helps school districts to set up STEM programs. <http://bit.ly/sVR5FI>

Adventures in Rocket Science Educator Guide (NASA) <http://1.usa.gov/i9D6FX>

Allegheny County Public Schools STEM Programs (Cumberland, Maryland) <http://bit.ly/qntAXb>

America's Best High Schools: The Elites (Newsweek Magazine) <http://bit.ly/c5u4IG>

American Institutes for Research STEM Center <http://www.air.org/focus-area/education/?id=10>

Arizona Center for STEM Teachers – University of Arizona resource and training center for STEM education. <http://www.az-stem-teachers.org/content/home>

Arizona Department of Education: 21<sup>st</sup> Century Learning Centers – Describes STEM resources in Arizona with emphasis on available state grants. <http://bit.ly/sBkomv>

Arizona State University STEM Partner Programs <http://modelit.asu.edu/outreach>

Arizona Tech Prep – Contains information on training programs in Arizona and elsewhere. <http://www.aztechprep.org/>

Arkansas Center for Mathematics and Science Education <http://bit.ly/pOiESR>

Bergenfield School District STEM Program (Bergenfield Public Schools, New Jersey) <http://bit.ly/qz4he6>

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- Best Practices in Technology Education (Cisco Systems, Inc.) <http://bit.ly/g7zNas>
- The Bronx High School of Science – Bronx, New York <http://www.bxscience.edu/>
- Canon River STEM School – Faribault, Minnesota <http://cannonriverstemschool.org/>
- Cedar Park Elementary STEM School – Apple Valley, Minnesota <http://www.district196.org/cp/>
- Center for Advanced STEM Studies (Lexington Technology Center in Lexington School District One, South Carolina) <http://bit.ly/rktgVY>
- Center for Excellence in Education – Provides summer programs to students who are highly gifted in science and mathematics. Manages the USA Biology Olympiad. <http://www.cee.org/>
- Center for Mathematics, Science and Technology (Illinois State University) <http://bit.ly/p2SbzB>
- The Center for STEM Education – Northeastern University <http://www.stem.neu.edu/staff.htm>
- Central Indiana I-STEM – Indiana University Purdue University Indianapolis <http://bit.ly/md6UaD>
- Challenger Learning Centers for Space Science Education <http://www.challenger.org/>
- Children's Engineering Educators (CEE): Developing Technological Literacy at the Elementary Level <http://www.childrengineering.com/CEEShop1.htm>
- The Children's Engineering Journal – Virginia Children's Engineering Council <http://bit.ly/mNKjg6>
- Children's Technology and Engineering – Journal of the INTERNATIONAL TECHNOLOGY AND ENGINEERING EDUCATORS ASSOCIATION (ITEEA) <http://www.iteea.org/Publications/t&c.htm>
- Cleveland High School – Seattle, Washington <http://bit.ly/mxHnVM>
- Cleveland Hub – STEM Schools & Programs in Northeast Ohio <http://bit.ly/pp4Fo1>
- The Coalition for Science After School – Has a search program for finding after school science activities throughout the USA. <http://www.afterschoolscience.org/tools/>
- Colorado MESA /Mathematics Engineering Science Achievement – Denver, Colorado. Provides online science courses and other numerous resources for STEM education. <http://bit.ly/iwR5LP>
- Colorado STEM Network <http://www.stemflorida.net/>
- Connect a Million Minds (An Initiative of Time Warner Cable) – Provides information about STEM resources in local communities across the nation. <http://bit.ly/nWwT6t>
- Connecticut Community Colleges STEM Program (Hartford, Connecticut) <http://bit.ly/p0RL6Q>
- Council for Opportunity in Education – Louis Stokes Institute for Opportunity in STEM Education <http://bit.ly/kLBYw6>
- Dayton Regional STEM School – Dayton, Ohio <http://www.daytonstemschool.org/>

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Denver School of Science and Technology <http://dsstpublicschools.org/>

The Department of Defense Ordnance Technology Consortium (DOTC) STEM Education Office, US ARMY – Picatinny, New Jersey <http://www.stemresource.org/>

Design Squad Nation (WGBH Educational Foundation, Boston) – Contests and projects involving the design of innovative technologies <http://pbskids.org/designsquad/video/index.html>

Discover Engineering <http://www.discoverengineering.org/>

Discoveries Unlimited: Multiplying Possibilities. Provides STEM Mentors for Gifted Students. <http://discoveriesunlimited.org/>

Dos Pueblos High School Engineering Academy. Located in Goleta, CA and is part of the Santa Barbara USD. <http://bit.ly/go1iNU>

Edison Muckers – Edison Innovation Foundation. Presents numerous online lessons for elementary and middle school students on energy innovations and applications. <http://bit.ly/kykKOU>

eGFI (Engineering Go For It – Created by the American Society for Engineering Education (ASEE). Has lessons, a newsletter and a magazine designed to increase students' interest in STEM education and becoming an engineer. <http://teachers.egfi-k12.org/>

The El Paso T-STEM Center <http://epcae.org/tstem/home.asp>

Engineering is Elementary® – Engineering & Technology Lessons for Children <http://bit.ly/AYmHU>

Engineering by Design™ – INTERNATIONAL TECHNOLOGY AND ENGINEERING EDUCATORS ASSOCIATION (ITEEA) <http://www.iteaconnect.org/EbD/ebd.htm>

Engineering Empowerment is Mathematicians Collaborating for Children Indiana University Purdue University Indianapolis <http://www.engr.iupui.edu/istem/content.php?id=42>

Engineering is Elementary – Engineering and Technology Lessons for Children <http://bit.ly/dEnirV>

Essex County College STEM Program (Newark, New Jersey) <http://eccstem.org/default.aspx>

Ethos: Helping Children Learn Science <http://www.ethosinc.org/>

Exploratorium: The museum of science, art and human perception – San Francisco museum of science education. <http://bit.ly/dh6lvh>

FastTrack STEM Centers <http://stemcenters.org/about.html>

First Lego League Competition – Introduces Students in Grades 4-8 to Building Lego-Based Robots. <http://bit.ly/3JB3RY>

Girlstart: Empowering Girls in Science, Technology, Engineering and Math <http://bit.ly/koDZW0>

Goddard School of Science and Technology – Worcester, Massachusetts – <http://bit.ly/j8U8OD>

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Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) – Study of Gifted Blacks in STEM Programs <http://www.giftedblackstem.org/>

Hughes STEM High School – Cincinnati, Ohio <http://hughesstem.cps-k12.org/about/aboutstem/>

Indiana University STEM Initiative <http://www.stem.indiana.edu/>

Indiana Workforce Development: STEM Schools Taking Root in Indiana <http://1.usa.gov/ljmPrI>

Industry Initiatives for Science and Math Education (IISME) – Has many Science and Math curriculum resources. <http://community.iisme.org/>

The Infinity Project – Middle School, High School, and Early College Engineering Curricula <http://1.usa.gov/ljmPrI>

Innovating Education at Northeast Ohio’s STEM Schools <http://bit.ly/fflpNs>

INTERNATIONAL TECHNOLOGY AND ENGINEERING EDUCATORS ASSOCIATION (ITEEA): STEM Connections <http://www.iteea.org/Publications/STEMconnections/STEMconnections.htm>

Iowa STEM Programs <http://www.iowastem.org/links.html>

I-STEM Resource Network (Indiana) <https://www.istemnetwork.org/index.cfm>

It Stems from Algebra: Professor Chris Dede and Assistant Professor Jon Star – Harvard Graduate School of Education <http://hvr.d.me/l2yP6a>

Johns Hopkins Center for Talented Youth <http://cty.jhu.edu/ctyonline/ref/YR.html>

Junior Engineering Technical Society (JETS) <http://www.jets.org/>

Junior Science and Humanities Symposium – Promotes original research and experimentation in the sciences, engineering, and mathematics at the high school level. <http://www.jshs.org/about.html>

Kentucky Center for Mathematics <http://kentuckymathematics.org/>

KIPP STEM Programs (Houston, Texas) <http://kipphouston.org/stemprogramoverview>

Knowles Science Teaching Foundation – Offers teaching and research fellowships, and conducts research and evaluation studies. <http://bit.ly/ubqi4V>

Knox County STEM Academy – Knoxville, Tennessee <http://knoxcountysystemac.knoxschools.org/>

Lindblom Math and Science Academy – Chicago, Illinois <http://lindblomeagles.org/index.jsp>

Linden-McKinley STEM School on Arcadia: Grades 7-12 – Columbus, Ohio <http://bit.ly/irt39a>

Los Altos Academy of Engineering – Advanced technical high school in Hacienda Heights, California. <http://bit.ly/sPKgIX>

Maine Pathways to STEM <http://www.mainestem.org/METeachers.asp>

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Manor New Technology High School – High powered STEM school located in East Manor, Texas.  
<http://bit.ly/tHeCX5>

Maryland Department of Education: STEM Schools & Local School Systems' Vision and Contact Information [http://www.marylandpublicschools.org/MSDE/programs/stem/stem\\_links](http://www.marylandpublicschools.org/MSDE/programs/stem/stem_links)

Maryland Science Center – Baltimore science museum that presents lessons to students in physics, mathematics, astronomy and biology. <http://www.mdsci.org/>

Massachusetts Academy of Sciences – Resources for STEM curriculum. <http://bit.ly/eVDS9e>

Maysville Community & Technical College STEM Program (Maysville, Kentucky) <http://bit.ly/obWJip>

Millard Oakley STEM Center (Tennessee Tech University) <http://www.tntech.edu/stem/home/>

MESA – Mathematics, Engineering, Science and Achievement – Prepares African-American, Native American, Latino and female students for college in mathematics, engineering, and science beginning in elementary school and continuing through high school. <http://www.seattlemesa.org/about.htm>

Minority Engineering Advancement Program ( MEAP) – Indiana University Purdue University Indianapolis <http://www.engr.iupui.edu/istem/content.php?id=34>

MIT Alumni Association: K-12 STEEM EDUCATION TOOLKIT <http://bit.ly/jGOdGO>

Museum of Science+Industry Chicago – Has many science programs for teachers and students.  
<http://www.msichicago.org/education/>

The National Center for STEM Elementary Education – St. Catherine University <http://bit.ly/kD6bZR>

National Center for Technological Literacy® – Boston. Provides scholarships, extensive information on different engineering fields, and state-by-state contacts. <http://www.mos.org/nctl/about.php>

National Girls Collaborative Project <http://www.ngcproject.org/directory/index.cfm>

National Institute for Women in Trades, Technology and Science – Provides resources and information for increasing the number of women in trades, technology and science fields. <http://www.iwitts.org/>

National Math + Science Initiative – directed to improving the current and future math and science teachers in the K-12 system and to raising the achievement of American students from the first grade through college. <http://www.nationalmathandscience.org/about-us>

National Science Foundation – Washington, DC. Fellowships and Grants Available to STEM Educators. <http://bit.ly/jqcN2a>

Navajo Elementary School STEM Program (Scottsdale Unified School District, Arizona)  
<http://susd.navaio.schoolfusion.us/>

New Horizons Governor's School for Science & Technology – Hampton, Virginia <http://bit.ly/lzX6Ov>

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New Jersey Institute of Technology – Has many STEM programs for minorities and women.

<http://bit.ly/uuePAI>

New Jersey School-Age Care Coalition – New Jersey’s Afterschool Stem Initiative

<http://bit.ly/mEmOJo>

New Jersey Technology Student Association <http://bit.ly/iF8kdz>

New Jersey Region VI Teaching, Learning and Technology Center – Presents extensive resources on STEM education. <http://sites.google.com/site/region6tltcsteminitiative/>

North Carolina School of Science and Mathematics <http://www.ncssm.edu/>

Northern Illinois University STEM Outreach <http://www.niu.edu/stem/programs/index.shtml>

Northern New Mexico College STEM Programs <http://bit.ly/p4eTCS>

Ohio STEM Learning Network <http://bit.ly/mQ2onD>

Ohio STEM Learning Network – STEM School Locator <http://www.osln.org/stem-school-locator.php>

Oklahoma School of Science and Mathematics – Oklahoma City, Oklahoma <http://bit.ly/imYctv>

Old Dominion University Darden College of Education Department of STEM Education and Professional Studies <http://education.odu.edu/ots/academics/undergrad/tech.shtml>

PA STEM Initiative <http://bit.ly/r2ebly>

Passaic County Community College STEM Program (Patterson, New Jersey) <http://bit.ly/pOk0GI>

Pathway to a STEM Degree from Community College to University (Iowa State University of Science and Technology) <http://bit.ly/pxcLnh>

Pathways to Science – Contains extensive information about STEM programs all over the nation.

<http://pathwaystoscience.org/Programs.asp>

Pitsco Education Online Store: Discovery: Teach STEM with Pitsco <http://bit.ly/lof4wv>

Pittsburgh Science and Technology Academy 6-12 – Rigorous program for inner city youth.

<http://bit.ly/vK3VtZ>

Preparing Outstanding Women for Engineering Roles (POWER) – Indiana University Purdue University Indianapolis <http://www.engr.iupui.edu/istem/content.php?id=35>

Preston Middle School of Science, Technology, Engineering & Math - Fort Collins, Colorado

<http://prestonmiddleschool.org/preston-academics/>

Project Based Instruction in STEM Education – Contains numerous applications to STEM Education.

<http://bit.ly/m8luma>

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Project Lead the Way – STEM Grants from the United States Department of Education

<http://bit.ly/gvK1tB>

Rachel Freeman School of Engineering – Wilmington, North Carolina <http://bit.ly/kIERqD>

Real World Design Challenge – annual team competition for 9-12 students who work on engineering problems <http://www.realworlddesignchallenge.org/>

REPORT TO THE PRESIDENT – PREPARE AND INSPIRE: K-12 EDUCATION IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM) FOR AMERICA’S FUTURE <http://1.usa.gov/dwJak5>

Resources for STEM Education – National Science Foundation <http://www.stemflorida.net/>

RobotEvents.com: Robotics Education and Competition Foundation’s Community Portal for Robotics and Technology in Education <http://robotevents.com/robot-competitions/vex-robotics-competition>

ROVER: Remotely Operated Vehicle Education and Resources – Supported by the Marine Advanced Technology Education (MATE) Center and the National Science Foundation. Offers information and contests for building automated underwater vehicles. <http://bit.ly/kbnwFB>

Science Foundation of Arizona – Recognition for outstanding work in STEM areas, and describes excellent resources for k-12 programs. <http://bit.ly/rxWVqN>

Science Matters! Getting Kids Excited about Science [http://www.in.gov/icw/files/sci\\_matter.pdf](http://www.in.gov/icw/files/sci_matter.pdf)

Science, Technology, Engineering & Mathematics: A Guide to Goals after Graduation – Learn How to Get From High School to a Successful STEM Career [http://www.in.gov/icw/files/G3\\_STEM.pdf](http://www.in.gov/icw/files/G3_STEM.pdf)

Science, Technology, Engineering, and Mathematics (STEM) Education – Maryland State Department of Education <http://bit.ly/KOZYi>

SciMathMN – Advocates for rigorous mathematics, science and technology programs in Minnesota. <http://www.scimathmn.org/science.htm>

SETDA (State Educational Technology Directors Association) – Has information about state Ed Tech activities. <http://bit.ly/ROIk>

Siemens STEM Academy – Provides Administrators and Teachers with Resources & Descriptions of Siemens Fellows. <http://bit.ly/ajtDOG>

Southwest Indiana STEM – University of Southern Indiana <http://www.usi.edu/stem/>

The Space Shuttle Experience (NASA) – Has detailed interactive information on this program <http://shuttleexperience.nasa.gov/home.aspx>

The STEM Academy – Develops K-12 STEM Curriculum <http://www.stem101.org/about.asp>

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STEM Academy of Highlands Branch, Colorado – Rigorous middle and high school program.

<http://www.stemhigh.org/>

STEM Career Awareness and Choices – Baltimore County Public Schools <http://bit.ly/IDhEbz>

STEM: Center for Women and Information Technology <http://bit.ly/qLCZ7v>

STEMConnector: The One Stop Shop for STEM Education – National and state resources.

<http://bit.ly/utozvo>

STEM Education Center – University of Minnesota <http://bit.ly/IQRnQV>

STEM Education Coalition <http://www.stemedcoalition.org/about-us/>

STEM Education in Florida <http://www.stemflorida.net/>

STEM: Historically Black College University Programs (Thurgood Marshall College Fund, Inc.)

<http://bit.ly/pdx3ED>

STEM Magnet High Schools (Anne Arundel County Public Schools, Maryland) <http://bit.ly/pwBgzH>

STEM Magnet Lab School – Northglenn, Colorado <http://stem.adams12.org/principal>

STEM School Academy – Highland Ranch, Colorado [http://www.stemhigh.org/?page\\_id=336](http://www.stemhigh.org/?page_id=336)

The STEM School Blog – School Resource for Educators, Parents and Students.

<http://www.stemschool.com/>

STEM Schools – Wake County, North Carolina Public Schools <http://bit.ly/ghPTGB>

STEM Starters (University of Arkansas at Little Rock) – Project focused on developing STEM materials for gifted students. <http://ualr.edu/gifted/index.php/home/stem/>

STEM Works Indiana: Career Advisors & Counselors Training <http://bit.ly/ku4CQS>

STEMfinity – Hands-on Educational Kits <http://www.stemfinity.com/store/>

STEMGrants.com <http://www.stemgrants.com/>

STEMscape: Ohio STEM Learning Network – Updates on STEM activities in Ohio.

<http://www.stemscape.org/>

Stuyvesant High School – New York City <http://stuy.enschool.org/>

*Successful K-12 STEM Education: Identifying Effective Approaches in Science, Technology, Engineering, and Mathematics* (Free PDF download) The National Academies Press – The National Research Council. Excellent report on STEM education programs across the nation. <http://bit.ly/kQN4pM>

Summer STEM Academy 2011 <http://www.wswheboces.org/gt.cfm?subpage=418>



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Teach Engineering, Resources for K-12 – Has many lessons for teaching principles of engineering design <http://bit.ly/jWxQf5>

Teaching Institute for Excellence in STEM (TIES) – Provides statewide networks on building STEM programs. <http://bit.ly/dNxR2l>

Team America Rocketry Challenge – Middle and High School Rocket Building Competition Sponsored by the Aerospace Industries Association <http://www.rocketcontest.org/>

Technology Experiences Cheerleading (TECh) – Purdue University College of Technology Summer Camp for Girls. <http://www.tech.purdue.edu/Camps/TECh/index.cfm>

Technology Student Association – Offers resources in STEM education for middle and high school students. <http://www.tsaweb.org/What-Is-TSA>

Texas Project Lead the Way <http://bit.ly/kPm6C2>

Texas Center for STEM <http://www.utdanacenter.org/tcstem/about.php>

Texas Tech University T-STEM Center <http://www.depts.ttu.edu/tstem/>

Thomas Jefferson High School for Science and Technology – Alexandria, Virginia <http://bit.ly/3xur8W>

Thomas More College STEM Program (Crestview Hills, Kentucky) <http://bit.ly/nluc46>

Triangle Coalition for Science and Technology Education – Designed to bring together government, business and education to improve the quality and outcome of STEM education <http://www.trianglecoalition.org/>

Twelve Best High Schools for STEM Education <http://bit.ly/gpgTlv>

UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM) <http://bit.ly/jzll18>

United States Naval Academy – Summer STEM Program <http://bit.ly/k6s154>

University of Buffalo Center for Education Collaboration Buffalo, New York Public Schools STEM Program <http://bit.ly/nxcc7p>

University of Cincinnati STEM Program Master of Education Degree <http://bit.ly/nKXrFH>

University of Massachusetts MA STEM Initiative <http://bit.ly/ncc3jV>

University of Minnesota STEM Center <http://bit.ly/neCzM7>

Urban Center for the Advancement of STEM Education (UCASE) – Indiana University Purdue University Indianapolis <http://www.iupui.edu/ucase/>

US First Robotics Competition – Founded by the great inventor, Dean Kamen to promote technology and science learning through designing robots. <http://www.usfirst.org/aboutus/vision>

U.S. Innovation – STEM Education Reports by States <http://bit.ly/XZHEC>

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**Virginia Children's Engineering Council – K-5 Technology References and Resources**

<http://www.childrengineering.org/resources/resources.php>

**Virginia Space Grant Consortium – Teacher Education STEM Scholarship Program.** <http://bit.ly/uDgtko>

**Virginia Tech-Integrative STEM Education** <http://www.soe.vt.edu/istemed/>

**Virginia Tech-STEM K-12 Outreach Initiative: STEM Related Educational Journals** <http://bit.ly/iGU289>

**Vols4STEM: Volunteers for Science, Technology, Engineering, and Mathematics – Tennessee Society of Professional Engineers, Knox County Schools and the Great Schools Partnership** <http://bit.ly/m0KDmV>

**Washington Saratoga Board of Cooperative Educational Services (BOCES) Saratoga Springs, New York**

**Washington (State) STEM Programs** <http://www.washingtonstem.org/index.asp>

**Waukesha (Wisconsin) STEM Academy** <http://www.waukeshastemacademy.com/Home.aspx>

**West Point Center for STEM Education – West Point, New York** <http://cse.usma.edu/>

**WI STEM.ORG: Wisconsin's Source for all Things STEM** <http://wistem.org/>

**Women and Minorities in STEM Education** <http://bit.ly/jeWEJ9>

**Zero Robotics – Robotics Competition Sponsored by MIT** <http://zerorobotics.mit.edu/>