STEM Resources for Educating Gifted Students

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

Complied 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/sJMWA5


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/


Adventures in Rocket Science Educator Guide (NASA)  http://1.usa.gov/j9D6FX

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


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


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

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://wwwdistrict196.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/


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 Technology and Engineering – Journal of the INTERNATIONAL TECHNOLOGY AND ENGINEERING EDUCATORS ASSOCIATION (ITEEA)  http://www.iteea.org/Publications/t&e.htm


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 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


Dayton Regional STEM School – Dayton, Ohio  http://www.daytonstemschool.org/
Denver School of Science and Technology  http://dsstpublicschools.org/


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

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


Dos Pueblos High School Engineering Academy. Located in Goleta, CA and is part of the Santa Barbara USD.  http://bit.ly/qo1iNU


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 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


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


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


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/ljmPrl


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

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://hvrd.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


Knox County STEM Academy – Knoxville, Tennessee  http://knoxcountystemac.knoxschools.org/


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


Maine Pathways to STEM  http://www.mainestem.org/METeachers.asp
Manor New Technology High School – High powered STEM school located in East Manor, Texas.  

Maryland Department of Education: STEM Schools & Local School Systems’ Vision and Contact Information  
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.  

Maysville Community & Technical College STEM Program (Maysville, Kentucky)  

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  

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.navajo.schoolfusion.us/

New Horizons Governor’s School for Science & Technology – Hampton, Virginia  
http://bit.ly/IzX6Ov
New Jersey Institute of Technology – Has many STEM programs for minorities and women.  

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/region6ltcsteminitiative/

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  

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  

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)  

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  

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

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
Project Lead the Way – STEM Grants from the United States Department of Education
http://bit.ly/gvK1tB


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/


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


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
STEM Academy of Highlands Branch, Colorado – Rigorous middle and high school program.  
http://www.stemhigh.org/


STEM: Center for Women and Information Technology  http://bit.ly/qLC7v

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

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.)  

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

The STEM School Blog – School Resource for Educators, Parents and Students.  
http://www.stemschool.com/


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/


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/


Summer STEM Academy 2011  http://www.wswheboces.org/gt.cfm?subpage=418
STEM Resources for Educating Gifted Students  Gifted Education Press  Manassas, VA 20109

Teach Engineering, Resources for K-12 – Has many lessons for teaching principles of engineering design  http://bit.ly/lWxQf5


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


Texas Center for STEM  http://www.utdanancenter.org/tcstem/about.php

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


Thomas More College STEM Program (Crestview Hills, Kentucky)  http://bit.ly/nIuc46

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/


UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM)  http://bit.ly/JZil18

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


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


Virginia Tech-Integrative STEM Education [http://www.soe.vt.edu/istemed/](http://www.soe.vt.edu/istemed/)


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

Washington (State) STEM Programs [http://www.washingtonstem.org/index.asp](http://www.washingtonstem.org/index.asp)

Waukesha (Wisconsin) STEM Academy [http://www.waukeshastemacademy.com/Home.aspx](http://www.waukeshastemacademy.com/Home.aspx)

West Point Center for STEM Education – West Point, New York [http://cse.usma.edu/](http://cse.usma.edu/)

WI STEM.ORG: Wisconsin’s Source for all Things STEM [http://wistem.org/](http://wistem.org/)
