

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS

CHECK OUT THESE WEB SITES FOR MORE INFORMATION ON NASA'S EDUCATION PROGRAMS, CAREER RESOURCES, AND OTHER RELATED RESOURCES.

NASA-SPONSORED ACTIVITIES		
PAGE	URL	DESCRIPTION
Adventures of Echo The Bat (Interactive Multimedia Adventures Using Remote Sensing)	http://imagers.gsfc.nasa.gov/index.html	Introduction to remote sensing and biodiversity
Aero Design Team Online (NASA Quest)	http://questdb.arc.nasa.gov/content_search_aero.htm	Find out how aeronautical engineers use airplane models, wind tunnels, supercomputers, simulators and other tools during the airplane design cycle.
Amazing Space (Hubble Space Telescope)	http://amazing-space.stsci.edu/	Amazing Space uses the Hubble Space Telescope's discoveries to inspire and educate about the wonders of our universe
Astro-Venture	http://quest.arc.nasa.gov/projects/astrobiology/astroventure/avhome.html	Astro-Venture is an educational, interactive, multimedia Web environment where students in grades 5-8 role-play NASA occupations, as they search for and build a planet with the necessary characteristics for human habitation.
E-Pals Classroom Exchange	http://www.epals.com/index.tpl?seesf=6526898	On-line classroom community and provider of student-safe e-mail
Earth Science Enterprise (For Kids Only)	http://kids.earth.nasa.gov/	
Exploring the Planets Cyber Center	http://www.nasm.si.edu/ceps/siimages/	Experience the excitement of planetary research
Global View From Space (A)	http://farside.gsfc.nasa.gov/ISTO/dro/global/	This fun viewer allows you to see near-live images of the earth from various satellites.

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA ACTIVITIES (continued)		
PAGE	URL	DESCRIPTION
Globe Program (The)	<a href="http://www.globe.gov/fsl/welcome/welcom
eobject.pl">http://www.globe.gov/fsl/welcome/welcom eobject.pl	The Vice President's initiative on global environmental education. The program focuses on K-12 students and provides an opportunity for students to gather scientific data that will be used by earth scientists.
Hubble Space Telescope	http://www.Stsci.edu	Space Telescope Science Institute activities
Imagine Mars	http://imaginemars.jpl.nasa.gov/index1.htm !	Students explore their own community and decide which arts, scientific and cultural elements will be important on Mars. Then they develop their ideal community, from an inter-disciplinary perspective of arts, sciences and technology.
(The) Ingenuity Project	http://www.ingenuityproject.org/	The mission of the Ingenuity Project is to prepare highly capable and motivated Baltimore students to achieve at nationally competitive levels in mathematics and science
ISS EarthKAM	http://www.earthkam.ucsd.edu/	Explore images of Earth taken from space by Middle School Students.
Kid's Science News Network	http://ksnn.larc.nasa.gov/	Series of newsbreaks that focus on specific math, science, and technology concepts. Watch the video. Learn about the topic. Do the activity, and then test your knowledge by taking the quiz.
Kids In Space Science	<a href="http://ssdoo.gsfc.nasa.gov/education/kids.
html">http://ssdoo.gsfc.nasa.gov/education/kids. html	Space Science activities for students
KidSat	<a href="http://prod031.sandi.net/gompers/KIDSA
T.HTM">http://prod031.sandi.net/gompers/KIDSA T.HTM	The mission of KidSat (sponsored by NASA, JPL, Johns Hopkins and the University of California at San Diego) is to demonstrate how middle school students can actively make observations of the earth by using cameras aboard the Space Shuttle and to conduct scientific inquiry in support of their middle school curricula.
Living With A Star	http://lws.gsfc.nasa.gov/	Space weather-focused and application driven research program

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA ACTIVITIES (continued)		
PAGE	URL	DESCRIPTION
MAP (Microwave Anisotropy Probe (MAP))	http://Wmap.gsfc.nasa.gov	NASA Explorer mission measuring the temperature of the cosmic background radiation over the full sky
MATHCOUNTS	http://mathcounts.org/	MATHCOUNTS is the national math coaching and competition program for 7th and 8th grade students. On their website you will find the problem of the week, problem solving, a math challenge, rules and procedures, and information for participating in the competition.
Models	http://spacelink.nasa.gov/Instructional.Materials/Curriculum.Support/Technology/Models/	Cassini/Huygens Spacecraft, Hubble Space Telescope, International Space Station, and Mars spacecraft. These are just a few of the models that you can download and assemble. Check out these sites with skill levels that range from beginner to advanced.
Observatorium	http://observe.arc.nasa.gov/nasa/entries/entry_3.html	NASA's Observatorium is a public access site for Earth and space data. Visit this site to access pictures of the Earth, planets, stars, online activities, and lesson plans and the stories that go with each.
(NASA) Quest	http://quest.arc.nasa.gov/	Meet the people of NASA and look over their shoulders as they make NASA's goals a reality. NASA Quest allows the public to share the excitement of NASA's authentic scientific and engineering pursuits like flying in the Shuttle and the International Space Station, exploring distant planets with amazing spacecraft, and building the aircraft of the future.
NASA's Page for Students	http://www.nasa.gov/audience/forstudents/index.html	NASA information for students
(NASA) Real-time Data	http://spaceflight.nasa.gov/realdata/tracking/index.html	Follow the International Space Station electronically as it journeys in its orbit above the Earth.

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA ACTIVITIES (continued)		
PAGE	URL	DESCRIPTION
Science Fair Project Topics	http://lws-edu.gsfc.nasa.gov/playground/science_fair_proj/science_fair.htm or http://lws-edu.gsfc.nasa.gov/playground/science_fair_proj/science_fair_2.htm	Looking for a science fair project topic?
(The) Space Place	http://spaceplace.jpl.nasa.gov/index.shtml	Make and do spacey things!
StarChild	http://starchild.gsfc.nasa.gov/docs/StarChild/StarChild.html	Grade school level astronomy information
Visitors Center	http://www.gsfc.nasa.gov/vc/home.shtml	The NASA Goddard Space Flight Center Visitor Center offers many unique programs, including tours, special events and presentations that highlight Goddard's contributions to America's Space Program.
Volcano World	http://volcano.und.edu/	All things volcanic are found at this NASA-sponsored page.
NASA CAREER INFORMATION		
Astroventure (NASA Quest)	http://quest.arc.nasa.gov/projects/astrobiology/astroventure/avhome.html	AstroVenture is an educational, interactive, multimedia Web environment where students in grades 5-8 role-play NASA occupations, as they search for and build a planet with the necessary characteristics for human habitation.
Behind The Scenes (NASA Human Spaceflight)	http://spaceflight.nasa.gov/shuttle/support/index.html	Thousands of people across the U.S. support our nation's human space flight effort. Meet some of these people and learn what they do everyday at NASA.
Careers in Aviation and Aerodynamics	http://wings.avkids.com/Careers/index.html	This site displays an extensive list of careers related to aviation and aerodynamics such as pilots, technicians, designers, flight dispatchers, cargo handlers, and golf club designers.
Earth Science Careers	http://kids.earth.nasa.gov/archive/career/index.html	Choose one of the listed professions to see how it relates to your skills and abilities, and a possible career in Earth Science.

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA CAREER INFORMATION (continued)

NAME	URL	DESCRIPTION
Good Plans Help You Reach Your Goals	http://www.grc.nasa.gov/WWW/K-12/Summer_Training/ColumbiaMS/goodplans.html	To be an active part of what's going on in the coming decades, you must begin to prepare yourself now. Excellent advice for seventh and eighth graders interested in a career in an aeronautics related field.
(NASA) Human Space flight	http://www.spaceflight.nasa.gov/outreach/jobinfo/astronaut.html	This site contains the latest information about how to become an astronaut. Find application forms, vacancy announcement brochure, job descriptions, training, and links to space agencies outside the United States.
GSFC-Job Shadow Goddard Space Flight Center	Ronald C Erwin Mail Code: Code 130.3 NASA Location: Technology Education Specialist 8800 Greenbelt Road Greenbelt, MD 20771 Phone: 301-286-7504	Students accompany and observe scientists or engineers as they work for a pre-arranged period of time, usually from 1-3 hours
Practical Uses of Math and Science (PUMA)	http://pumas.jpl.nasa.gov/	On-line journal showing how math and science topics can be used in interesting settings, including everyday life.
Profiles - Women Who Are Changing The Priorities and Practice of Science	http://microgravity.msfc.nasa.gov/WOMEN/index.html	NASA's Microgravity Research Program profiles Women at NASA on this career-oriented website. Get to know women astronauts, engineers, and other experts as you read about their accomplishments in aerospace and science.
NASA Research Pilot Biographies	http://www.dfrc.nasa.gov/Newsroom/Biographies/Pilots/index.html	What does it take to be a test pilot? These biographies give a glimpse into the careers of NASA test pilots.
Science Careers at NASA	http://ssdoo.gsfc.nasa.gov/education/disciplines.html	NASA Scientists from various disciplines share career stories
So You Want To Be An Astronaut	http://liftoff.msfc.nasa.gov/academy/astronauts/wannabe.html	NASA chooses its astronauts from an increasingly diverse pool of applicants that, "looks like America". From thousands of applications from all over the world, approximately 100 men and women are chosen for an intensive astronaut candidate-training program every two years.

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA CAREER INFORMATION (continued)		
NAME	URL	DESCRIPTION
Sun-Earth Connection Education Forum	http://sunearth.gsfc.nasa.gov/sunearth/day/	Multimedia Gallery (with Aurora Movies, Flash Gallery - including interviews with scientists and real-time observation of the Sun and Auroras; and interactive children's books)
Women Of NASA	http://quest.nasa.gov/women/intro.html	The Women of NASA resource was developed to encourage more young women to pursue careers in math, science, and technology.
NASA-SPONSORED EDUCATION PROGRAMS		
(GSFC) Education Programs	http://education.gsfc.nasa.gov	Learn about Goddard Education Programs.
(NASA) Education Programs	http://education.nasa.gov/index.html	Learn about NASA research and development opportunities and NASA sponsored opportunities
Project Career Goddard Space Flight Center	Antoinette C Wells Mail Code: Code 130.3 NASA Location: GSFC Education Office 8800 Greenbelt Road Greenbelt, MD 21771 Phone: 301-286-7262 FAX: 301-286-1655 E-mail Address: awells@pop100.gsfc.nasa.gov	This interdisciplinary career education program for grades 4-8 provides both an in-school and an on-base experience at Goddard Space Flight Center.
Science & Technology Journalism Competition	http://www.nsip.net/competitions/journalism/journalism_toc.cfm	NASA Student Involvement Program (NSIP) competition Science & Technology Journalism . Share NASA's scientific and technical achievements in a manner that is accurate, engaging, informative, and speaks to the inner spirit of exploration and discovery.
Science, Engineering, Mathematics and Aerospace Academy Glenn Research Center (SEMAA)	http://www.semma.net/	SEMAA is a national innovative program designed to increase participation and retention of K-12 youth who are underrepresented in Science, Technology, Engineering, and Math.
Structured Intern Program	http://oops.gsfc.nasa.gov/sip/	The Structured Intern Program is a 3-week, unpaid internship involving the world of computer based mechanical engineering.

EDUCATIONAL WEB RESOURCES FOR MIDDLE SCHOOL STUDENTS (continued)

NASA-SPONSORED EDUCATION PROGRAMS		
NAME	URL	DESCRIPTION
(NASA) Student Involvement Program	http://www.nsip.net/index.cfm	The NASA Student Involvement Program (NSIP) is a national program of six competitions for grades K-12 that link students directly with NASA's exciting missions of exploration and discovery.
(NASA) Student Job Opportunities	http://www.nasajobs.nasa.gov/stud_opps/employment/index.htm or http://www.nasajobs.nasa.gov/stud_opps/	Learn about NASA sponsored paid and unpaid work opportunities for students. Combine academic studies with on-the-job training and experience.
Summer High School Apprenticeship Research Program (SHARP)	http://www.mtsibase.com/sharp/ or http://education.nasa.gov/sharp/	SHARP operates during the summer months for approximately eight weeks at participating NASA Centers and university campuses. 10 th -12 th grade students are selected on the basis of having shown the aptitude for and interest in science and engineering careers. The website offers more information for those interested in the program.
Summer Institute in Science, Technology, Engineering, and Research (SISTER)	http://education.gsfc.nasa.gov/pages/sister.html	Goddard Space Flight Center is offering a five day Summer Institute for the purpose of increasing the awareness of and providing opportunities for middle school girls to explore nontraditional career fields with women engineers, mathematicians, scientists, and researchers at the Goddard Space Flight Center.

NON-NASA SITES FOR MIDDLE SCHOOL STUDENTS

ACTIVITIES		
PAGE	URL	DESCRIPTION
Figure This: Math Challenges For Families	http://figurethis.org/	Interesting math challenges that middle-school students can do at home with their families
International Space Station Challenge	http://voyager.cet.edu/iss/	This website offers problem-solving activities based on authentic engineering and technology challenges related to the design, construction and maintenance of the International Space Station (ISS).

NON-NASA SITES FOR MIDDLE SCHOOL STUDENTS (continued)

ACTIVITIES		
PAGE	URL	DESCRIPTION
National Security Agency Kid's Page	http://www.nsa.gov/programs/kids/index.html	The Puzzle Solvers at Cryptic Manor was developed to share the fun and excitement of solving challenging problems--and hopefully get you thinking about careers in math, computer science, and technology.
Learning Web (U.S. Geological Survey)	http://www.usgs.gov/education/index.html	Explore things on, in, around, and about the earth such as land, water, plants, animals, and maps.
MadSci Network	http://madsci.wustl.edu/	MadSci Network represents a collective cranium of scientists providing answers to your questions
National Air and Space Museum On-line Activities	http://www.nasm.si.edu/nasm/edu/activity.html	Three of the Museum's online galleries — Exploring the Planets, Explore the Universe and How Things Fly — feature science activities for classroom and home use.
Space Available: Learning From Satellites (Golf of Maine Aquarium)	http://www.gma.org/surfing/space.html	Remote sensing information and activities
Spacecamp.com Kids	http://www.spacecamp.com/kids/	Fun and games
Web Weather For Kids	http://www.ucar.edu/educ_outreach/webweather/	Learn what makes weather wet and wild, do cool activities, and become hot at forecasting the weather on Web Weather for Kids!
CAREER INFORMATION		
Astro-Venture	http://quest.arc.nasa.gov/projects/astrobiology/astroventure/avhome.html	Astro-Venture is an educational, interactive, multimedia Web environment where students in grades 5-8 role-play NASA occupations, as they search for and build a planet with the necessary characteristics for human habitation.
Behind The Scenes	http://spaceflight.nasa.gov/shuttle/support/index.html	Thousands of people across the U.S. support our nation's human space flight effort. Meet some of these people and learn what they do everyday at NASA.
Careers In Astronomy	http://www.aas.org/education/career.html	On-line pamphlet An on-line pamphlet maintained by the American Astronomical Society

NON-NASA SITES FOR MIDDLE SCHOOL STUDENTS (continued)

CAREER INFORMATION (continued)		
NAME	URL	DESCRIPTION
Careers In Aviation and Aerodynamics	http://wings.avkids.com/Careers/index.html	Extensive list of careers related to aviation and aerodynamics such as pilots, technicians, designers, flight dispatchers, cargo handlers, and golf club designers.
Discover Engineering On-line	http://www.discoverengineering.org/ewe/ek/default.asp	Resource for careers in science and engineering
Guide Me NACME	http://www.guidemenacme.org	Career road map for engineering
When I Grow Up	http://spacelink.nasa.gov/Instructional.Materials/On-line.Educational.Activities/Grow/index.html	Students will research information about careers at NASA in this On-line Educational Activity from NASA Spacelink.
Society of Women Engineers Career Guidance Information	http://www.swe.org/SWE/StudentServices/CareerGuidance/ForStudents/index.html	Information that can provide you with the resources you need in order to pursue engineering!
Solar Week	http://www.lmsal.com/YPOP/solarweek/	This site is intended to spark pre- and early teen girls' interest in pursuing careers in science through the study of recent solar physics discoveries
Young Astronaut Council	http://www.yac.org/yac/ or http://www.yac.org/yac/yac.asp?section=intro&age=kids	The Young Astronaut Program helps kids like you make discoveries, solve problems, and learn neat stuff about space, our world, and yourself
EDUCATION PROGRAMS		
Howard B. Owens Science Center Summer Programs	http://www.pgcps.org/~hbowens/	Variety of summer science enrichment programs for students aged 4-15.
National Action Council for Minorities In Engineering- for Precollege Students	http://www.nacme.org/prec/precollege.html	Education programs which support the aspirations of middle and high students

NON-NASA SITES FOR MIDDLE SCHOOL STUDENTS (continued)

EDUCATION PROGRAMS		
PAGE	URL	DESCRIPTION
National Science Foundation What's Cool Web Pages	http://www.nsf.gov/od/lpa/events/justforkids.htm	Hands-on learning activities and games for kids and parents; teaching materials for educators and students; lectures by distinguished scientists, engineers, and educators; and much more.
National Society of Black Engineers Pre-College Initiative	http://www.nsbe.org/precollege/index.html	Promotes college, academics, technology and leadership to pre-college students.
Space Academy	http://www.spacecamp.com/spacecamp/space_academy_al.asp	SPACE ACADEMY® 5/6 - day Program, Ages 12-14
U.S. Space Camps	http://www.spacecamp.com/spacecamp/	U.S. Space Camp is a five-day program jam-packed with astronaut training for young people.
Woodlawn High School Robotics Summer Camp	Woodlawn High School ATTN: Brian Bruneau 1801 Woodlawn Drive Baltimore, MD 21207 410-887-1309 Bbruneau@bcps.org	One week summer camp for current seventh and eighth grade students interested in robots. Sponsored by Woodlawn High School in partnership with Johns Hopkins University

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS

CHECK OUT THESE WEB-SITES FOR MORE INFORMATION ON NASA'S
EDUCATION PROGRAMS, CAREER RESOURCES, AND
OTHER RELATED RESOURCES

NASA ACTIVITIES AND GENERAL INFORMATION		
PAGE	URL	DESCRIPTION
Amateur Astronomy	http://spacekids.hq.nasa.gov/osskids/orgs/index.htm	Astronomy as a hobby
Amazing Space (Hubble Space Telescope)	http://amazing-space.stsci.edu/	Amazing Space uses the Hubble Space Telescope's discoveries to inspire and educate about the wonders of our universe
Ask a High-Energy Astronomer	http://imagine.gsfc.nasa.gov/docs/ask_a_stro/ask_an_astronomer.html	Ask an astronomer about High Energy Astrophysics. This deals with the X-ray, Gamma-ray and Cosmic Ray universe; and covers topics such as black holes, quasars and dark matter.
Ask The Space Scientist	http://image.gsfc.nasa.gov/poetry/ask/askmag.html	
E-Pals Classroom Exchange	http://www.epals.com/index.tpl?seesf=6526898	On-line classroom community and provider of student-safe e-mail
Earth Science Enterprise	http://kids.earth.nasa.gov/kidswork.html	Exciting programs and projects for kids
Global View From Space (A)	http://farside.gsfc.nasa.gov/ISTO/dro/global/	This fun viewer allows you to see near-live images of the earth from various satellites. For example, you can check the ozone hole in Antarctica, cloud cover in China, wind speed in Europe, and water vapor levels over the Pacific. The viewer will also animate the view so you can watch how conditions change over time.
Global Learning and Observations to Benefit the Environment (Globe) Program	http://www.globe.gov/fsl/welcome/welcomеobject.pl	The Vice President's initiative on global environmental education. The program focuses on K-12 students and provides an opportunity for students to gather scientific data that will be used by earth scientists.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA ACTIVITIES AND GENERAL INFORMATION		
PAGE	URL	DESCRIPTION
Hubble Space Telescope	http://www.Stsci.edu	Space Telescope Science Institute
Imagine The Universe	http://imagine.gsfc.nasa.gov/	This site is intended for students age 14 and up, and for anyone interested in learning about our universe
NASA's Page for Students	http://www.nasa.gov/audience/forstudents/index.html	
Observatorium	http://observe.arc.nasa.gov/nasa/entries/entry_3.html	NASA's Observatorium is a public access site for Earth and space data. Visit this site to access pictures of the Earth, planets, stars, online activities, and lesson plans and the stories that go with each.
Practical Uses of Math and Science (PUMA)	http://pumas.jpl.nasa.gov/	On-line journal showing how math and science topics can be used in interesting settings, including everyday life.
Science Fair Project Topics	http://lws-edu.gsfc.nasa.gov/playground/science_fair_projects/science_fair.htm or http://lws-edu.gsfc.nasa.gov/playground/science_fair_projects/science_fair_2.htm	Looking for a science fair project topic?
Solar Terrestrial Probes (STP) Program	http://stp.gsfc.nasa.gov	Learn about the Solar Terrestrial Probes (STP) Program
Virtual Skies	http://virtualskies.arc.nasa.gov/vsmenu/vsmenu.html	Explore the exciting worlds of aviation technology, air traffic management, and current research
Volcano World	http://volcano.und.edu/	All things volcanic are found at this NASA-sponsored page.
You Be the Astrophysicist!	http://imagine.gsfc.nasa.gov/YBA/yba-intro.html	Solve a real problem in astronomy by traveling through web pages, exploring different options and learning many different things along the way.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA CAREER INFORMATION		
PAGE	URL	DESCRIPTION
Aero Design Team Online (NASA Quest)	http://questdb.arc.nasa.gov/content_search_aero.htm	Find out how aeronautical engineers use airplane models, wind tunnels, supercomputers, simulators and other tools during the airplane design cycle.
Ask The Space Scientist - A Career in Astronomy	http://image.gsfc.nasa.gov/poetry/ask/a_careers.html	Questions and answers about careers in astronomy
Behind The Scenes (NASA Human Space flight)	http://spaceflight.nasa.gov/shuttle/supp ort/index.html	Thousands of people across the U.S. support our nation's human space flight effort. Meet some of these people and learn what they do everyday at NASA.
Career Connection Apprenticeship Program	http://education.gsfc.nasa.gov/files/NSCSP03.pdf	Students in High School are able to participate in work-based skills and school based instruction through partnerships in research and mentoring. This program involves linking industry competencies with quality educational experiences that form the science technologies model.
Civil Service Job Qualifications	http://nasajobs.nasa.gov/jobs/civil_service_job_qualifications.htm	This site at NASA Jobs lists qualifications for civil service jobs such as astronauts, engineers, administrative professionals, attorneys, scientists, engineers, medical doctors, pilots, clerks/assistants/secretaries, management, student programs, and technicians.
(Goddard Space Flight Center) Cooperative Education Program	http://ohr.gsfc.nasa.gov/job_student/coop/home.htm	Learn about Goddard's Cooperative Education Program for college sophomores through seniors
Good Plans Help You Reach Your Goals	http://www.grc.nasa.gov/WWW/K-12/Summer_Training/ColumbiaMS/goodplans.html	To be an active part of what's going on in the coming decades, you must begin to prepare yourself now. This website has excellent advice for high school and college students interested in a career in an aeronautics related field.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA CAREER INFORMATION (continued)		
PAGE	URL	DESCRIPTION
(NASA) Human Space flight	http://www.spaceflight.nasa.gov/outreach/jobsinfo/astronaut.html	Current information about how to become an astronaut. Here you will find application forms, vacancy announcement brochure, job descriptions, training, and links to space agencies outside the United States.
NASA Jobs	http://nasajobs.nasa.gov/	Have you ever wondered how to apply for a job at NASA? NASA's job site provides information about civil servant job vacancies, summer opportunities, contractor positions, and job descriptions. The site also includes step-by-step instructions for applying for different NASA positions.
NASA Recruiting	http://nasajobs.nasa.gov/recruit/materials/education.htm	These education materials provide information on many of NASA's education and grant programs. This is great information for high school and college-age individuals, as well as for parents of students.
NASA STARS	http://nasastars.nasa.gov/	NASA has implemented a new automated staffing and recruiting system called NASA Stars. This site has helpful information about applying for a job using this system.
NASA Student Job Opportunities	http://www.nasajobs.nasa.gov/stud_opps/employment/index.htm or http://www.nasajobs.nasa.gov/stud_opps/	Learn about NASA sponsored paid and unpaid work opportunities for students. Combine academic studies with on-the-job training and experience.
NASA Quest	http://quest.arc.nasa.gov/index.html	Meet the people of NASA and look over their shoulders as they make NASA's goals a reality. NASA Quest allows the public to share the excitement of NASA's authentic scientific and engineering pursuits like flying in the Shuttle and the International Space Station, exploring distant planets with amazing spacecraft, and building the aircraft of the future.
NACME	http://www.nacme.org	Learn about engineering programs, training, and scholarships for minorities on the National Action Council for Minorities in Engineering's website

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA CAREER INFORMATION (continued)		
PAGE	URL	DESCRIPTION
National Space Club Scholars Program	http://education.gsfc.nasa.gov/files/NCSPO3.pdf	Provides students with an opportunity to experience how research and development organizations operate on a day-to-day basis in support of NASA's mission.
Spacelink Careers	http://spacelink.nasa.gov/Instructional.Materials/Curriculum.Support/Careers/.index.html	Learn which courses to take and what types of jobs are available in Aerospace, Earth Science, Space Science, or Technology. Explore a variety of opportunities.
NASA-SPONSORED EDUCATION AND STUDENT PROGRAMS (partial listing)		
Access Earth Summer Institute	http://www.accessearth.usm.maine.edu/application/summer_info.htm	ACCESS Earth is a program for high school students with disabilities and teachers to encourage students with disabilities to enter careers in earth system science.
Apprenticeship Program	http://education.gsfc.nasa.gov	Provides opportunities in space science, Earth science, and technology applications for incorporating the academic and industry standards in a supervised work setting. Students must be at least 16 years of age (see web for additional eligibility requirements)
Center for Mathematics, Science, and Technology (CMST) Summer Program	www.mathismylife.org	Two-week summer enrichment program for middle and high school students. Provides an array of courses aimed at engaging students in mathematical and scientific problem solving using innovative techniques.
(Goddard) Education Programs	http://education.gsfc.nasa.gov/	Learn about GSFC Education Programs
(NASA) Education Programs	http://education.nasa.gov/index.html	Learn about NASA research and development opportunities and NASA sponsored opportunities
(NASA) General Aviation Programs Office Student Competition	http://sats.larc.nasa.gov/competition/index.html	The General Aviation Programs Office at NASA Langley Research Center, Hampton, VA is sponsoring a university competition for individuals or small teams of students. The competition categories are Technology Innovation and Systems Innovation.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA-SPONSORED EDUCATION AND STUDENT PROGRAMS (partial listing)		
PAGE	URL	DESCRIPTION
Graphic Visualization Internship Program	http://education.gsfc.nasa.gov/pages/placement.html	An opportunity for students to perform multi-disciplinary system analysis using 3-D graphical simulation program systems. By applying these techniques to present and future flight projects, an assortment of graphic productions is created in control/structure interaction, integration and test designs.
High School High Tech	http://www.high-school-high-tech.com/	This program is an ongoing endeavor to encourage high school students with disabilities, especially minorities, to prepare themselves and pursue technical degrees in college, then technical careers.
Job Shadowing Program	http://education.gsfc.nasa.gov/pages/placement.html	Students have an opportunity to accompany and observe scientists or engineers as they work, for a pre-arranged period of time, usually 1-3 hours. Using a series of web-sites that assist them in acquiring information about the various enterprises available at GSFC, a link is established to school-based curricula with reinforcement of science, math and technology programs in real-time.
Langley Aerospace Research Summer Scholars (LARSS) Program	http://edu.larc.nasa.gov/larss/	Offers undergraduates and first-year graduate students across the United States research experiences at NASA Langley Research Center for 10-weeks each summer. The website provides information about eligibility, research competencies, and the application process.
Living With A Star Student Internship	http://lws.gsfc.nasa.gov/	LWS Summer Student Program give students the opportunity to work with scientists, engineers or E/PO leads.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA-SPONSORED EDUCATION AND STUDENT PROGRAMS (partial listing)		
PAGE	URL	DESCRIPTION
Mentor/Mentee Goddard Space Flight Center	http://education.gsfc.nasa.gov/pages/placement.html	Students (16 years of age) work with scientists/engineers during a school day, 3-4 days per week for a minimum of 3 weeks becoming knowledgeable assistants to their mentors in activities that support the expertise of the mentor
Meyerhoff Scholars Program	http://ohr.gsfc.nasa.gov/job_student/Meyerhoff.htm	The Meyerhoff Scholars Program is jointly managed by NASA and the University of Maryland-Baltimore County (UMBC). It is a temporary employment program designed to support High-achieving College Students pursuing careers in science, mathematics and students interested in pursuing a Ph.D. Applicants must be enrolled at UMBC.
MU-SPIN Messenger Project	http://mured.nasaprs.com/muspin/	Student intern program with mission engineers sponsored by NASA/Minority University Research and Education Division and The John Hopkins University/Applied Physics Laboratory
NASA Academy	http://university.gsfc.nasa.gov/SA/index.html	An educational program at the university level for developing space leaders at GSFC, Ames Research Center, and Dryden Flight Research Center. Science or engineering students at university level are eligible.
National Space Grant College and Fellowship Program	http://www.hq.nasa.gov/spacegrant	Provides specialized training and education programs to help maintain the United States' capabilities in aerospace science and technology, and education, and capitalizes on multiple opportunities afforded by the space environment.
Pre-Engineering Program (Capitol College)	http://www.capitol-college.edu/academics/nasaprep/index.html	Six-week program designed to strengthen the academic, study and interpersonal skills of minority high school seniors who are interested in pursuing a Bachelor of Science degree in electrical engineering, computer engineering, astronomical engineering, computer science or software engineering. .

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA SPONSORED EDUCATION AND STUDENT PROGRAMS (partial listing)		
PAGE	URL	DESCRIPTION
Structured Intern Program	http://oops.gsfc.nasa.gov/sip/ or http://education.gsfc.nasa.gov/pages/placement.html	3 week unpaid internship involving computer-aided design (CAD) for building a computer model of a spacecraft component. After verification, the component is added to libraries for use in conceptual spacecraft designs.
Student Internship Program (SIP)	http://university.gsfc.nasa.gov/SIP/index.html	SIP brings mathematics, science, or engineering majors at the undergraduate or graduate level to GSFC to support ongoing research projects.
(NASA) Student Involvement Program (NSIP)	http://www.nsip.net/index.cfm	NSIP is a national program of six competitions for grades K-12 that link students directly with NASA's exciting missions of exploration and discovery.
Summer High School Apprenticeship Research Program - SHARP	http://www.mtsibase.com/sharp/	SHARP operates during the summer months for approximately eight weeks at participating NASA Centers and university campuses. Students are selected on the basis of having shown the aptitude for and interest in science and engineering careers. The website offers more information for those interested in the program.
Summer Institute in Engineering and Computer Applications (SIECA)	http://apollo.cs.bowiestate.edu/sieca/	Provides space-related research experience for minority undergraduate students.
TECH-INTERNS.COM	http://www.tech-interns.com/	NASA, along with the American Society for Engineering Education (ASEE), has launched a site designed to increase undergraduate and graduate student access to research and internship opportunities in science and engineering fields. Search the database for internships, ask questions, or check out online resources about scholarships, resumes and financial information.

EDUCATIONAL WEB RESOURCES FOR HIGH SCHOOL STUDENTS (continued)

NASA SPONSORED EDUCATION AND STUDENT PROGRAMS (partial listing)		
PAGE	URL	DESCRIPTION
Undergraduate Student Research Program	http://education.nasa.gov/usrp	10-15 week research experience at a NASA Center under the supervision of a NASA technical mentor. Junior or Seniors enrolled in an accredited U.S. College or University (see web for additional eligibility information).
Visiting Student Enrichment Program	http://esdcd.gsfc.nasa.gov/VSEP/	High school, undergraduate and graduate students majoring in a science, (including Computer Science) work with GSFC mentors on a science-related project based directly or indirectly in computers for 10 weeks during the summer.
Women's Engineering and Space Science Intern Program	http://lws-edu.gsfc.nasa.gov/professional_development/student_internships/women_intern.htm	Learn about NASA's Women's Engineering and Space Science Intern Program

NON-NASA SITES FOR HIGH SCHOOL STUDENTS

ACTIVITIES AND GENERAL INFORMATION		
PAGE	URL	DESCRIPTION
Center for Talented Youth Summer Programs	http://www.jhu.edu/gifted/ctysummer/ http://www.jhu.edu/gifted/ctysummer/docs/JHU_courseassignment.pdf (Baltimore, MD)	Johns Hopkins University summer programs offered at colleges and universities throughout the nation
Heavens Above.com	http://www.heavens-above.com/	Information needed to observe satellites such as the International Space Station and the Space Shuttle , spectacular events such as the dazzlingly bright flares from Iridium satellites as well as a wealth of other space flight and astronomical information.

NON-NASA SITES FOR HIGH SCHOOL STUDENTS (continued)

ACTIVITIES AND GENERAL INFORMATION (continued)		
PAGE	URL	DESCRIPTION
International Space Station Challenge	http://voyager.cet.edu/iss/	This website offers problem-solving activities based on authentic engineering and technology challenges related to the design, construction and maintenance of the International Space Station (ISS). Students are encouraged to work in teams to complete model-building, ISS tracking, life science research and simulation analysis, and develop emergency escape design challenges.
Learning Web (U.S. Geological Survey)	http://www.usgs.gov/education/index.html	Explore things on, in, around, and about the earth such as land, water, plants, animals, and maps.
MadSci Network	http://madsci.wustl.edu/	MadSci Network represents a collective cranium of scientists providing answers to your questions
Maryland Mathematics, Engineering, Science Achievement (MESA) Program	http://www.jhuapl.edu/mesa/mesa1.htm	Structured multi-year precollege program sponsored by The Johns Hopkins University Applied Physics Laboratory, Morgan State University, The University of Maryland College Park, local school systems, and businesses throughout Maryland.
National Society of Black Engineers Pre-College Initiative	http://www.nsbe.org/precollege/index.html	Promotes college, academics, technology and leadership to pre-college students.
Space.Com	http://www.space.com/	This comprehensive Web site includes up-to-date news on the International Space Station, games, launch information, and interviews.
USA Mathematical Talent Search (USAMTS)	http://www.nsa.gov/programs/mepp/usamts.html	The USA Mathematics Talent Search (USAMTS) is a free mathematics competition open to all United States high school students

NON-NASA SITES FOR HIGH SCHOOL STUDENTS (continued)

CAREER INFORMATION		
PAGE	URL	DESCRIPTION
Careers In Aviation and Aerodynamics	http://wings.avkids.com/Careers/index.html	This site displays an extensive list of careers related to aviation and aerodynamics such as pilots, technicians, designers, flight dispatchers, cargo handlers, and golf club designers.
Is Engineering For You?	http://www.swe.org/SWE/StudentServices/CareerGuidance/EngrForYou/brochure1.html	A Career Guidance publication produced by the Society of Women Engineers for High School Students.
Society of Hispanic Professional Engineers	http://www.shpe.org/students/index.htm	Student information from the largest Hispanic Engineering and Science organization
Society of Women Engineers Student Stuff	http://www.swe.org/SWE/StudentServices/studentstuff.html	Stimulates women to achieve full potential in careers as engineers and leaders
Solar Week	http://www.lmsal.com/YPOP/solarweek/	This site is intended to spark pre- and early teen girls' interest in pursuing careers in science through the study of recent solar physics discoveries
Women In Science - Shattering The Glass Ceiling	http://recruit.sciencemag.org/feature/advice/foc_02_07_03.shl	Female scientists explain how they moved up the career ladder to leadership positions in academic, government, and industrial organizations.