



Information on the MIT Inspirational Teacher Award for distribution by MIT Alumni Clubs:

- Event Checklist
- Press Release
- The Award Package
- The Award Certificate
- List of opportunities available to K-12 students and teachers through MIT

Volunteer Job Description

MIT Club of _____

Title: **K-12 STEM Education “Inspire” volunteer**

General Description: The Inspire volunteer is the club representative who connects MIT K-12 student and teacher training and recognition programs to the local community.

Specific Tasks and Duties:

- Supports the MIT Inspirational Teacher Award Program by helping the local club recognize and honor inspirational teachers selected in their area.
- Promotes the Science and Engineering Program for Teachers (SEPT) and may recruit a local teacher to attend; may also raise funds to support the teacher or the SEPT program.
- Promotes FIRST to local alumni and encourages them to participate as spectators, mentors and judges.
- Promotes the Lemelson-MIT InventTeams High School Invention grants initiative in the local community.
- Promotes the OpenCourseWare Highlights for High School Portal and may establish mentoring/tutoring or study group programs in support of students using the portal.
- Connects local teachers and students with other K-12 programs available at MIT
- Organizes local alumni into groups or committees focused on K-12 STEM education and outreach; monitors K-12 STEM Education Volunteer Network in Infinite Connection for local alumni sign ups.
- Attends Alumni Leadership Conference.

Sample Expected Outcomes:

An outreach goal of contact with _____ schools is set for FY _____

A goal of _____ volunteers is set for FY _____

A fundraising goal of \$_____ for SEPT or Scholarship support is set for FY_____

Training and Support:

The Inspire Volunteer reports to the local club Board of Directors ; The volunteer will receive training/support from the assigned Alumni Affairs Officer

Time Commitment:

The Inspire volunteer position requires a time commitment of 1 to 2 hours per week

Qualifications:

The Inspire volunteer must be a current member of the Club. Knowledge of and contacts in the local community school system is preferred. Multiple alumni contacts in the area and strong networking skills are helpful

Benefits:

High visibility position with MIT Club. Access to MIT materials for Club officers such as the volunteer publications “Volunteer View” (an e-newsletter).

**MIT INSPIRATIONAL TEACHER AWARD
MIT ALUMNI CLUB EVENTS**

EASY STEPS & TIMELINE

8 Weeks Out

- Make contact with school principal to discuss appropriate celebration(s) (both in school and at Club events)
- Determine date and location of event(s)
- Contact potential event hosts and speakers

7 Weeks Out

- Determine style and time of event
- Determine any special Club related award to present to teacher
- Send letter of congratulations and invitation to teacher
- Determine program for event: what time speakers will begin, who will speak and for how long
- Contact your Educational Council Regional Chair to initiate collaboration on event
- Send e-mail to guests with “save the date” and note that email or print invitations will follow

4 Weeks Out

- Send invitations to guests, including teacher’s top school administrator(s) and Educational Councilors
- Send press releases and invite media coverage
- Confirm Club representatives to attend any in-school recognition event

3 Weeks Out

- Begin RSVP list

2 Weeks Out

- Continue taking RSVPs
- Confirm hospitality needs; food, drink, name tags, photography, etc.
- Receive award materials from MIT to present to teacher

Day of Event

- Assign Club Volunteers and/or Educational Councilor to steward the teacher, make introductions

After Event

- Send thank-you notes to teacher and other school administrators
- Send thank-you notes to other volunteers
- Forward electronic copies of photography and press clippings to Alumni Association

SUPPORT PROVIDED BY MIT

- MIT will send awards to be presented to teachers
- MIT will be a resource for logistical needs and networking



The Award Package

The MIT Inspirational Teacher Award Committee will present selected teachers a certificate, a crystal paperweight, an Athena account (so they can access MIT resources), and a packet detailing MIT opportunities for high school teachers, students and schools. Any addition to the award package is at the discretion of the MIT Alumni Club celebrating the teacher.

Following are suggestions from high school teachers about how they would like to be honored by MIT:

- A scholarship to attend MIT's Science and Engineering Program for Teachers (<http://web.mit.edu/scienceprogram/>)
- A subscription to The Technology Review (for the teacher and school)
- A plaque (for the teacher and school)
- An "MIT awesome" item, like Clocky or the \$100 laptop
- MIT gear
- A book that captures the spirit of MIT and inspiration (e.g.: Creativity: Flow and the Psychology of Discovery and Invention, Mihaly Csikszentmihalyi; The Idea Factory: Learning to Think at MIT, Pepper White)
- Gift certificates to buy items for the classroom
- Tours of companies/facilities where MIT alumni work

*The Massachusetts Institute of Technology
&
The MIT Alumni Club of [Name of Alumni Club]*

are proud to present

[Teacher's Name]

with the

2012 MIT Inspirational Teacher Award

For successfully inspiring and motivating students at

[School's name] to achieve excellence



<<Club President Name>>
President, MIT Club of <<Club Name>>

<<Club Inspire/K-12 Volunteer Name>>
<<Volunteer Title>>

[To be Printed on Club Letterhead]

For More Information:

[Club Contact Name]
[Phone Number]
[Email Address]

Christine Tempesta
Director, Strategic Initiatives
MIT Alumni Association
617-253-8222
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**[TEACHER NAME] OF [NAME OF SCHOOL] AWARDED
MIT INSPIRATIONAL TEACHER AWARD
FOR INSPIRING EXCELLENCE IN CURRENT MIT STUDENT**

xx MIT Inspirational Teacher Awards Given Worldwide

[City, State], [Month] [Date], 2012 — [Teacher name] of [Name of School] was recently awarded the MIT Inspirational Teacher Award for inspiring excellence in a current MIT student and [Name of School] alumnus.

[Name of Current MIT Student] cited [Teacher's Name] and [Very Short Quote From Student's Nomination Describing Why This Teacher Is Deserving]. [Name of Teacher] was one of X# teachers worldwide to receive the award this year.

With high school teachers facing tighter standards and budgets, the MIT Inspirational Teacher Award provides much-needed recognition to teachers who inspire excellence in their students.

This award provides a vehicle for MIT students to recognize high school teachers who inspired them. [The Teacher] will be honored at a [insert event/gathering of MIT Alumni] on [date of event]. The MIT Inspirational Teacher award is one of the MIT Alumni Association's K-12 STEM Education Outreach initiatives. Many MIT alumni are engaged in enhancing K-12 STEM education in their local communities.

ABOUT THE MIT INSPIRATIONAL TEACHER AWARD

Most of us have had a high school teacher, counselor, or coach who stands out in our hearts and memories as a significant influence in our lives. The lessons such outstanding educators teach often go far beyond the subject matter of their fields. They may instill values and a love of learning that shape our educational and career choices, and guide us throughout our adult lives. MIT wishes to recognize a few of the exceptional high school educators who have influenced the lives of our students. Selections are made on the basis of information and insights presented in on-line nominations, submitted by current MIT students. More information is online at <http://web.mit.edu/inspire>.

##



MIT has a wide variety of K-12 Outreach programs and resources available to educators and students. This document, developed for the MIT Inspirational Teacher Award¹, is a non-exhaustive (and growing) list of opportunities available to K-12 students and teachers through MIT and MIT’s affiliates. As an educator, we are confident that you will put this resource to good use!

For further information on any one opportunity, please proceed to the specific program’s Web site and use the posted contact information.

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¹ The MIT Inspirational Teacher Award allows current MIT students to recognize an outstanding secondary school teacher who inspired in them a love of learning and the creative spirit, encouraged them to pursue excellence, and gave them the skills and enthusiasm they need to make a positive difference in the world.

SCHOOL-YEAR PROGRAMS AVAILABLE IN MA

For Students & Teachers: opportunities that you go to @ MIT

Biology Department High School Outreach

<http://web.mit.edu/biology/www/outreach/highschool.html>

Science teachers from the greater Boston area are invited to 1) attend a 5-day summer workshop with lectures on current topics in biology and hands-on laboratory activities. 2) Apply for a six-week summer research internship in a biology lab at MIT. 3) Bring their honors and advanced placement biology classes to MIT for faculty lectures and hands-on lab activities. 4) Attend monthly faculty lectures at the Whitehead Institute during the school year. 5) Become involved in science curriculum development. Contact Dr. Mandana Sassanfar by email for further information on these programs (mandana@mit.edu).

Broad Institute Educational Outreach Program

<http://www.broad.mit.edu/outreach/education/>

The goal of this new program is to form connections between the Broad Institute and high school students and teachers in the Boston/Cambridge area that will generate excitement and interest in cutting edge biomedical research. Through this program, students and teachers can experience the Broad community and explore what it means to be a scientist.

Center for Materials Science & Engineering (this program also has pre-sessions during the summer)

<http://mit.edu/cmse/educational/k12.html>

Since 1992, the Center for Materials Science and Engineering has operated a Science and Engineering Program for Middle School Students designed to familiarize young adolescents with the field of materials science and engineering. In the course of hands-on explorations of the properties of various materials and the manipulation of those materials for specific applications, students learn basic materials science concepts. They also learn firsthand that science is fun! This program targets seventh and eighth grade students from two Cambridge public elementary schools. A group of twelve students and the science teacher from each school spends a full summer week on the MIT campus. They return for several after school sessions during the academic year.

Edgerton Center Outreach

<http://web.mit.edu/edgerton/outreach/>

The Edgerton Center was named for Institute Professor Harold "Doc" Edgerton, known for his fun with strobe experiments. Our Outreach Program has grown from demonstrations with strobe lights and high-speed video, to include almost any topics that will allow participants to have some hands-on fun.

ESP/SPLASH Programs

<http://esp.mit.edu/>

The MIT Educational Studies Program (ESP) was created by MIT students in 1957 so we could make a difference in the community by sharing our knowledge and creativity with local high school students.

Haystack Observatory

<http://www.haystack.mit.edu/edu/pcr/index.html>

Located in the wooded hills of Westford, MA, is the MIT-Haystack Observatory. Here, cutting-edge research is performed in radio astronomy and radar applications to probe the Earth's atmosphere, the Sun's dynamic nature, and mysteries of the distant Universe. It is a goal of Haystack to inform the community of the work that is being done at the Observatory in the areas of galactic and extragalactic observations, plate motions of the Earth's crust, and space weather. In addition, the Haystack Observatory is dedicated to providing educational resources for the local community of teachers and students at the pre-college level.

MIT Museum

<http://web.mit.edu/museum/programs/school.html>

Are you a teacher looking for ways to provide your students with an enjoyable and engaging experience and still meet the state standards? Are you a homeschooler seeking unique programs? Or are you a community organization/daycamp/scout leader seeking ways to broaden your group's horizons? The MIT Museum can assist you in this challenge. The Museum offers exhibitions, programs, and activities that introduce visitors to the technological innovations at MIT.

Plasma Science and Fusion Center Outreach Days

<http://www.psfc.mit.edu/education/k12/>

Twice a year the PSFC reaches out to High Schools or Middle Schools around Massachusetts, inviting one teacher and two students to spend a day at the Center. Through tours, talks and demonstrations, attendees learn about plasmas, their behavior, and their role in harnessing fusion energy. Students will have the opportunity to see how plasmas are confined, to perform hands-on demonstrations with electromagnetism, and to review the progress of MIT's Alcator C-MOD tokamak, one of two working U.S. magnetic fusion devices currently funded by the Department of Energy. Other experiments may also be available for viewing.

Sea Grant *(this program also has sessions during the summer)*

<http://seagrant.mit.edu/education/index.php>

We are committed to educating our citizenry about the opportunities and challenges associated with continued expansion into the marine realm. Our goals in this area include giving K-12 students hands-on exposure to fisheries and underwater robotics, providing coastal managers and researchers with

workshops and symposia, and communicating the results and implications of our research to as wide an audience as possible. We will continue to foster collaboration with other groups and institutions in these efforts. Programs include Adopt-a-Boat and Sea Perch (note: some projects/programs are available outside MA through other partnerships, contact them for further information).

For Students & Teachers: opportunities that come to you

Aeronautics and Astronautics Space Systems Laboratory (*this program also has sessions during the summer*)

http://ssl.mit.edu/nasa_epo/index.html

Reaching for the Stars is a comprehensive educational program for inner-city high school students, made possible by funding from the [NASA Education and Public Outreach](#) (E/PO) program. The core component of *Reaching for the Stars* is a series of interactive, hands-on science and engineering activities designed to increase student knowledge and interest in these areas, while meeting guidelines set in the Massachusetts Science and Technology/Engineering Curriculum Framework.

Center for Environmental Health Sciences

<http://cehs.mit.edu/outreachprograms.html>

The major objectives of the CEHS COEC are to inform children and adults about the impact of the environment on human health and to empower people to make wise choices about lifestyle and their relationship to the environment.

Chemistry Magic Show

<http://web.mit.edu/clubchem/www/magicshows.html>

Magic shows geared for young audiences, with the goal of inspiring an interest in chemistry and science in general through up-close and personal encounters with some unbelievable but true chemical phenomena. Available only local to MIT campus.

Chemistry Outreach Program

<http://web.mit.edu/chemistry/www/outreach/>

The MIT Chemistry Outreach Program was developed in 1988 to bring the excitement of chemistry to high school students in the greater Boston area. MIT Chemistry graduate students visit local high schools and present chemistry demonstrations designed to illustrate a broad range of chemical principles.

ESP/SPLASH Programs

<https://esp.mit.edu/learn/Splash/media.html>

The MIT Educational Studies Program (ESP) was created by MIT students in 1957 so we could make a difference in the community by sharing our knowledge and creativity with local high school students.

Scratch

<http://scratch.mit.edu/>

Scratch is a programming language that makes it easy to create your own interactive stories, animations, games, music, and art -- and share your creations on the web. As young people create and share Scratch projects, they learn important mathematical and computational ideas, while also learning to think creatively, reason systematically, and work collaboratively. Scratch Day is an event held around the world, while Scratch conferences are also held on campus. ScratchEd is an online community for educators.

Sea Grant *(this program also has sessions during the summer)*

<http://seagrant.mit.edu/education/index.php>

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(note: many projects/programs – some are available outside MA)

Society for Women Engineers (SWE) Programs

<http://mit.edu/swe/www/outreach.html>

SWE Outreach Chairs aim to promote engineering as a positive force in the community by educating them about the numerous opportunities in engineering as a future career! They achieve this through events for all youth ranging from an engineering day with brownie girl scouts to a design competition with teams of high schoolers and university students. They also sponsor the **KEYs Program** (this program also has sessions during the summer)

<http://web.mit.edu/swe/www/keys.html>. KEYs is a motivational program that brings 11-13 year old girls together with MIT women students to participate in workshops held periodically throughout the year. The goal of KEYs is to empower young women by promoting their self-confidence, increasing their self-esteem, and unveiling opportunities for their potential career paths. Girls are encouraged to take a closer look at science and its impact on society.

For Students: opportunities that students go to @ MIT

MIT Kavli Institute Education and Public Outreach *(this program also has sessions during the summer)*

<http://epo.mit.edu/>

Student Opportunities: The Youth Astronomy Apprenticeship program is an out-of-school time (OST) initiative that uses an astronomy apprenticeship model to promote learning in STEM disciplines among urban, underrepresented youth and their communities; The Chandra Astrophysics Institute (CAI) is a year-round program intended for students from a wide range of academic backgrounds with a limited opportunity to directly experience authentic science. They may be

interested in exploring a science career, or looking to develop research, technology and collaboration skills valuable for college or work in ANY field.

S.E.E.D. Academy

<http://mit.edu/seed>

The Saturday Engineering Enrichment and Discovery (SEED) Academy is an academic enrichment and career exploration program for public high school students from Boston and Cambridge, Massachusetts.

Whitehead Institute Spring Lecture Series for High School Students

<http://www.wi.mit.edu/programs/student/index.html>

The Whitehead Spring Lecture Series for High School Students offers students an opportunity to learn about cutting edge topics in biomedical research. The three-day program, held over spring vacation, features lectures from leading scientific experts, laboratory demonstrations, visits to local biotech companies, and opportunities to meet with young Whitehead scientists.

For Teachers: opportunities that you go to @ MIT

MIT Kavli Institute Education and Public Outreach (*this program also has sessions during the summer*)

<http://epo.mit.edu/>

After-School Professional Opportunities: Support and training

Resources: Project-based activities

Whitehead Institute Seminar Lecture Series for High School Teachers

<http://www.wi.mit.edu/programs/teacher/index.html>

The series is held one Monday a month from October through June in McGovern Auditorium at the Whitehead Institute. Each session starts at 4 pm with a lecture on a selected topic by a leading scientist in the field. The session ends around 6:00 pm after a dinner during which teachers get a chance to informally interact with each other and Whitehead scientists. The schedule for the academic year is given to you in the beginning of September, so you can plan ahead and make necessary arrangements. Each teacher is assigned a Whitehead partner—a young, enthusiastic scientist who will attend each session with you and serve as a resource to you throughout the school year. In the past, Whitehead Partners have visited their teachers' classrooms to lead labs, give talks on career opportunities in science, or do a presentation on their research. Whitehead Partners have also hosted class visits to the Institute, providing students a glimpse into a working laboratory.

SCHOOL-YEAR PROGRAMS WITH OFFERINGS/RESOURCES AVAILABLE NATIONWIDE

Biology Department – Ask a Biologist

<http://mit.edu/biology/www/outreach/highschool.html>

If you are a high school student or a high school science teacher and have biology-related questions, email us your questions

Whitehead Institute – Ask a Scientist

<http://www.wi.mit.edu/programs/ask/index.html>

Ever wish you could grill a scientist about the latest biomedical discoveries and trends? Here's your chance.

Lemelson-MIT InvenTeams

<http://web.mit.edu/inventeams>

Lemelson-MIT InvenTeams is a national grants initiative of the [Lemelson-MIT Program](#) to foster inventiveness among high school students. InvenTeams composed of high school students, teachers and mentors are asked to collaboratively identify a problem that they want to solve, research the problem, and then develop a prototype invention as an in-class or extracurricular project. Grants of up to \$10,000 support each team's efforts.

Media Lab's Lifelong Kindergarten

<http://ilk.media.mit.edu/projects/>

We believe that it is critically important for all children, from all backgrounds, to grow up knowing how to design, create, and express themselves. We are inspired by the ways children learn in kindergarten: when they create pictures with finger paint, they learn how colors mix together; when they create castles with wooden blocks, they learn about structures and stability. We want to extend this kindergarten style of learning, so that learners of all ages continue to learn through a process of designing, creating, experimenting, and exploring.

Scratch

<http://scratch.mit.edu/>

Scratch is a programming language that makes it easy to create your own interactive stories, animations, games, music, and art -- and share your creations on the web. As young people create and share Scratch projects, they learn important mathematical and computational ideas, while also learning to think creatively, reason systematically, and work collaboratively. Scratch Day is an event held around the world, while Scratch conferences are also held on campus. ScratchEd is an online community for educators.

MIT Public Service Center Fellowships

<http://web.mit.edu/mitpsc/fellowships/informed/requestfellow.shtml>

The MIT Public Service Center (PSC) offers paid fellowships for MIT students to work on community service projects during January and the summer break. The Public Service Fellowship program provides the finances and support necessary for students to work intensively on projects that provide sustainable benefits to underserved communities. Community members, community organizations, and non-profit organizations are invited to submit descriptions of projects they would like a Fellow to work on.

Sea Grant (*this program also has sessions during the summer*)

<http://web.mit.edu/seagrant/edu/>

We are committed to educating our citizenry about the opportunities and challenges associated with continued expansion into the marine realm. Our goals in this area include giving K-12 students hands-on exposure to fisheries and underwater robotics, providing coastal managers and researchers with workshops and symposia, and communicating the results and implications of our research to as wide an audience as possible. We will continue to foster collaboration with other groups and institutions in these efforts. Programs include Adopt-a-Boat and Sea Perch (note: some projects/programs are available outside MA through other partnerships, contact them for further information).

Teacher Education Program

<http://education.mit.edu>

The mission of the MIT Teacher Education Program (TEP) is twofold. One goal is to develop a cadre of MIT undergraduates that will become the science and math teachers of tomorrow. Building upon their strengths and deep understanding of science and engineering, they can make a substantial contribution to the K-12 community. The other goal is to work with in-service teachers to help them to bring a piece of the "MIT Experience" to their classrooms. Focusing on the use of computer games and simulations in the classroom, the TEP brings new technologies and curriculum to students and teachers, facilitating the exploration of new ideas in science, math and technology. Through these experiences the TEP aims to help teachers and students develop a deeper understanding of the nature of science and the world around them.

Women's Initiative

<http://web.mit.edu/wi/>

Women's Initiative is a student group at MIT dedicated to encouraging more women to pursue degrees and careers in Engineering. During the month of January, enthusiastic women from the School of Engineering at MIT are selected to speak with high school girls nationwide about the excitement of careers in engineering. The presentations include activities to engage students in thinking about engineering concepts, demonstrations of projects on which the presenters have worked, and information about the different engineering fields and the life of an engineering student.

SUMMER PROGRAMS ON CAMPUS

For Students & Teachers: opportunities that you go to @ MIT

Center for Environmental Health Sciences

<http://cehs.mit.edu/outreachprograms.html>

The major objectives of the CEHS COEC are to inform children and adults about the impact of the environment on human health and to empower people to make wise choices about lifestyle and their relationship to the environment.

Aeronautics and Astronautics Space Systems Laboratory (this program also has sessions during the school-year)

http://ssl.mit.edu/nasa_epo/index.html

Reaching for the Stars is a comprehensive educational program for inner-city high school students, made possible by funding from the [NASA Education and Public Outreach \(E/PO\)](#) program. The core component of *Reaching for the Stars* is a series of interactive, hands-on science and engineering activities designed to increase student knowledge and interest in these areas, while meeting guidelines set in the Massachusetts Science and Technology/Engineering Curriculum Framework.

Center for Materials Science & Engineering (this program also has sessions during the school-year)

<http://mit.edu/cmse/educational/k12.html>

Since 1992, the Center for Materials Science and Engineering has operated a Science and Engineering Program for Middle School Students designed to familiarize young adolescents with the field of materials science and engineering. In the course of hands-on explorations of the properties of various materials and the manipulation of those materials for specific applications, students learn basic materials science concepts. They also learn firsthand that science is fun! This program targets seventh and eighth grade students from two Cambridge public elementary schools. A group of twelve students and the science teacher from each school spends a full summer week on the MIT campus. They return for several after school sessions during the academic year.

Sea Grant (this program also has sessions during the school-year)

<http://web.mit.edu/seagrant/edu/>

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For Students: opportunities that students go to @ MIT

Broad Institute Summer Internship Program

<http://www.broad.mit.edu/outreach/education/internship.html>

This is a paid six-week long internship for rising seniors that runs Monday through Friday, roughly 9am - 4pm, July 5th through August 13th at the Broad Institute.

KEYs Program *(this program also has sessions during the school-year)*

<http://web.mit.edu/swe/www/keys.html>. KEYs is a motivational program that brings 11-13 year old girls together with MIT women students to participate in workshops held periodically throughout the year. The goal of KEYs is to empower young women by promoting their self-confidence, increasing their self-esteem, and unveiling opportunities for their potential career paths. Girls are encouraged to take a closer look at science and its impact on society.

MITE²S Program: residential

<http://mit.edu/mites/www/>

MITE²S (Minority Introduction to Engineering and Science) is a rigorous six-week residential, academic enrichment summer program for promising high school juniors who are interested in studying and exploring careers in science, engineering, and entrepreneurship. This national program stresses the value and reward of pursuing advanced technical degrees and careers while developing the skills necessary to achieve success in science and engineering in an increasingly racially and ethnically diverse nation and world. MITES is rooted in MIT's belief in the importance to our nation that minorities and other underrepresented segments of the population pursue higher education and careers in these fields. The program is 100% scholarship-based. Funding from industry, foundations, and individuals covers all living and educational expenses for each admitted student. Students only pay for their transportation to and from MIT.

MIT Kavli Institute Education and Public Outreach *(this program also has sessions during the school-year)*

<http://space.mit.edu/EPO/>

Student Opportunities: The Youth Astronomy Apprenticeship program is an out-of-school time (OST) initiative that uses an astronomy apprenticeship model to promote learning in STEM disciplines among urban, underrepresented youth and their communities; The Chandra Astrophysics Institute (CAI) is a year-round program intended for students from a wide range of academic backgrounds with a limited opportunity to directly experience authentic science. They may be interested in exploring a science career, or looking to develop research, technology and collaboration skills valuable for college or work in ANY field.

STEM Program (*this program continues with sessions during the school-year*)
<http://mit.edu/stem>

The Science Technology Engineering and Math (STEM) Program is an academic enrichment offering provided free of charge to talented middle school students who want to get ahead in math and science. Taught by college students, the STEM Program's curriculum combines lectures, projects and experiments to support learning. Participants take college level courses, learn to play a racquet sport, take field trips to places like the Museum of Science and meet some very interesting people.

Women's Technology Program/WTP: residential

<http://wtp.mit.edu/>

The MIT Women's Technology Program (WTP) is a four-week summer academic and residential experience where female high school students explore engineering through hands-on classes, labs, and team-based projects in the summer after 11th grade. WTP is designed for girls who excel at math and science, but who have *no prior background* in engineering or computer science. The tuition fee for admitted students is \$3,000 which includes books, lab materials, food, and housing for the four-week program. Students are responsible for their own transportation to and from MIT in Cambridge, Massachusetts. Financial assistance is available to cover or discount the tuition fee and sometimes reimburse transportation costs based on your family's financial situation.

You GO Girl!

<http://web.mit.edu/edgerton/outreach/ygg.html>

You GO Girl! is a four day summer program at the MIT Edgerton Center designed for girls entering the 9th grade in the fall. Our program is designed as an introductory view to a wide variety of science and engineering strands. Any girl who can commute to our program is eligible to attend. There is a suggested materials donation of \$40.

For Teachers: opportunities that you go to @ MIT

Biology Department Summer High School Teachers' Workshop (this program also has sessions during the school-year)

<http://web.mit.edu/biology/www/outreach/precollege/TW.html>

The Teachers' Workshop is offered in the summer to high school science teachers from the greater Boston area, and is funded by the Howard Hughes Medical Institute and the Department of Biology at MIT. The workshop is designed to provide both new and experienced teachers a dynamic setting in which they can gain new insight into modern biology, and the opportunity to develop and integrate new curriculum material into their science classes.

Center for Environmental Health Sciences Summer Teacher Workshop (*this program also has sessions during the school-year*)

http://cehs.mit.edu/COEP/COEP_teacher.html

Come to the MIT Campus in Cambridge, MA for two days with colleagues and MIT researchers on the topic of DNA and gene- environment interactions.

Center for Materials Science & Engineering (this program occasionally offers special hands-on teacher workshops during the school-year that address MA education standards)

<http://mit.edu/cmse/educational/teachers.html>

The Center for Materials Science and Engineering sponsors involvement in materials science and engineering for middle, junior high, and high school teachers through two main summer outreach programs: Research Experience for Teachers (RET) and Science Teachers Enrichment Program (STEP). Both programs focus on strategies for transferring the teachers' research experience to the classroom. STEP is for MA teachers.

MIT Kavli Institute Education and Public Outreach (this program also has sessions during the school-year)

<http://space.mit.edu/EPO/>

After-School Professional Opportunities: Support and training
Resources: Project-based activities

Science & Engineering Program for Teachers (SEPT)

<http://web.mit.edu/scienceprogram/>

Each summer, we select approximately fifty teachers to share MIT's perspective on how engineers apply the principles of science to meet the technological needs of society. The value of this integrated perspective, combining the leading-edge research in math and the sciences with engineering, advanced technologies, global economics, and policy issues has been enthusiastically endorsed by MIT.

Haystack Observatory Research Experience for Teachers

<http://www.haystack.mit.edu/edu/ret/index.html>

MIT Haystack Observatory in Westford, MA, will host (2007) two local area high school science teachers during the summer, under the sponsorship of the National Science Foundation. These teachers will work with staff scientists on a project using observational instruments and will receive hands-on experience in the field of radio astronomy and atmospheric science. Participants will also have the opportunity to attend weekly seminars focusing on various areas of research conducted at Haystack. The goal of the program is for the teachers to develop a unit of inquiry-based lesson plans for a particular high school level, based on their summer research internship.

RESOURCES OF INTEREST

MIT OpenCourseWare (MIT OCW) and Highlights for High School

<http://ocw.mit.edu/index.html>

<http://ocw.mit.edu/OcwWeb/hs/home/home/index.htm>

OCW makes the course materials that are used in the teaching of almost all MIT's undergraduate and graduate subjects available on the Web, free of charge, to any user anywhere in the world. MIT OCW is a large-scale, Web-based publication of MIT course materials, and is not a degree-granting or credit-bearing initiative. Highlights for High School features MIT OpenCourseWare materials that are most useful for high school students and teachers.

Blossoms

<http://blossoms.mit.edu/>

The vision of BLOSSOMS is to begin to develop a large, free repository of video modules for high school math and science classes created by gifted volunteer teachers from around the world, seeded initially by MIT faculty members and by partnering educators in Jordan and Pakistan.

OpenLabWare

<http://olw.mit.edu/index.olw>

OpenLabWare provides online materials that enhance understanding of the research process, and excite students about research at MIT

iLab

<http://ilab.mit.edu/ServiceBroker/>

Online laboratories that enrich science and engineering education by providing remote lab experiments to large groups of students at MIT and around the world

New Media Literacies

<http://newmedialiteracies.org/>

The New Media Literacies project is working to integrate new media materials into compelling activities for students for use in or out of school.

Global MIT

<http://global.mit.edu/>

A comprehensive database of MIT's global involvement ranging from individual faculty collaborations to institutional partnerships

MIT World™

<http://mitworld.mit.edu/>

MIT World™ is a free site of on-demand video of significant public events at MIT.

TechTV

<http://techtv.mit.edu/>

MIT Tech TV is the video-sharing site for the MIT community. It supports community through the aggregation and distribution of science, engineering, and MIT-related video on the web.

MIT on Twitter

<http://twitter.com/MITNews>

TOURS @ MIT**Aeronautics and Astronautics Space Systems Laboratory**

http://ssl.mit.edu/nasa_epo/index.html

Bates Linear Accelerator Center

<http://mitbates.lns.mit.edu/bates/>

Biotechnology Process Engineering Center Laboratory

Contact: ddarling@mit.edu

Chandra Operations Control Center

<http://space.mit.edu/EPO/TourGuide.html>

Computer Science and Artificial Intelligence Laboratory

<http://www.csail.mit.edu/tours/tours.html>

Haystack Observatory

Contact: info@haystack.mit.edu

MIT Campus Tours

<http://web.mit.edu/infocenter/campustours.html>

MIT Kavli Institute Education and Public Outreach

<http://space.mit.edu/EPO/>

MIT Nuclear Research Reactor

Contact: eslau@mit.edu

Plasma Science and Fusion Center

Contact: rivenberg@psfc.mit.edu

Sea Grant

Contact: bmmoran@mit.edu

The MIT Inspirational Teacher Award is a collaborative effort between the MIT Alumni Association and its Alumni Clubs, the Lemelson-MIT Program and the MIT Public Service Center.

MIT Alumni Association

<http://alum.mit.edu/>

The MIT Alumni Association enables nearly 120,000 former students to stay in touch with one another and continue their MIT connections. Under the direction of a volunteer alumni board, the Association staff engages alumni with the Institute and with one another through events held worldwide, web-based services, and involvement in fundraising for the Institute. Over 80,000 alumni are connected online, via the Association's popular suite of online alumni services, the "Infinite Connection."

Lemelson-MIT Program

<http://web.mit.edu/invent>

The Lemelson-MIT Program is dedicated to honoring the acclaimed and unsung heroes who have helped improve our lives through invention. We inspire and encourage great inventors through various outreach programs such as Lemelson-MIT InvenTeams, a non-competitive, team-based national grants initiative for high school students. The cornerstone of the Lemelson-MIT Program is a prestigious awards program that includes the \$500,000 Lemelson-MIT Prize.

MIT Public Service Center

<http://web.mit.edu/mitpsc/about/index.html>

As part of MIT's Division of Student Life and Department of Student Life Programs, the main goal of the PSC is to enrich the educational and life experiences of students through leadership and service opportunities. We believe the best way to accomplish this goal is to welcome all members of the MIT community to participate with those students, so undergraduates can enjoy associating with graduate students, faculty, staff, alumni, and other members of the MIT community.



Congratulations!

As a winner of the MIT Inspirational Teacher Award we would like to connect you with opportunities and resources at MIT. *This form can be returned to inspire@mit.edu or faxed to 617-258-8276.*

Name: _____
Email: _____
School phone: _____
School mailing address: _____

Please indicate your interest in the following by placing a check in the corresponding box.

Access to MIT's on-line library

Here you can search for electronic versions of research journals, MIT theses, and other publications.

If you've checked the box, we will create an Athena Account for you. To do so we will need the following information:

Month and Day of birth (e.g.: 01/01): _____

Once we've created your account, we will email registration instructions.

Share contact information

There are a number of educational outreach programs at MIT. Some opportunities are for teachers, some for students, and some are for both teachers and students. By checking the box next to each program below you're asking for more information and for us to share your contact information with the respective program(s).

Lemelson-MIT InvenTeams

InvenTeams is an initiative that awards grants up to \$10,000 each to teams of high school students, teachers, and mentors to invent technological solutions to real-world problems. Each October, high schools from across the United States are selected as InvenTeams. Semi-finalist teachers are invited to a workshop and grant recipients attend EurekaFest, a

multi-day celebration designed to empower a legacy of inventors through activities that inspire youth, honor role models, and encourage creativity and problem solving.

[] Minority Introduction to Engineering and Science (MITES)

MITES is a rigorous academic enrichment program for promising high school juniors interested in studying and exploring careers in science, engineering, and entrepreneurship. During six weeks in the summer before their senior year, participants tackle advanced academic challenges, develop the skills necessary to achieve success in an increasingly globalized economy, and forge relationships with individuals from diverse racial, ethnic, cultural, and socioeconomic backgrounds. The program is scholarship-based, with students paying only for transportation to and from MIT.

<http://web.mit.edu/mites/www/index.html>

[] Public Service Fellow

The MIT Public Service Center (PSC) offers paid fellowships for MIT students to work on community service projects during January and the summer break. The Public Service Fellowship program provides the finances and support necessary for students to work intensively on projects that provide sustainable benefits to underserved communities.

<http://web.mit.edu/mitpsc/resources/fellowships/informed/requestfellow.html>

[] Science and Engineering Program for Teachers (SEPT)

Every year, SEPT selects approximately fifty teachers to share MIT's perspective on how engineers apply the principles of science to meet the technological needs of society.

Examples are drawn from engineering systems important to international commerce and health care, such as integrated circuits, artificial intelligence and bioengineering, as well as those that affect the quality of life on Earth, such as water treatment, the infrastructure, and energy conversion. <http://web.mit.edu/scienceprogram/index.html>

[] The Women's Initiative

The Women's Initiative is a unique program aimed at getting more high school and middle school girls excited about pursuing careers in engineering and computer science. Each January, enthusiastic women from the Massachusetts Institute of Technology (MIT) School of Engineering are selected to go to middle and high schools nationwide to speak with young women about the excitement of careers in engineering. (US only.)

<http://web.mit.edu/wi/schools/>

[] The Women's Technology Program

The Women's Technology Program (WTP) is a four-week summer residential program at the Massachusetts Institute of Technology to introduce female high school students to Electrical Engineering and Computer Science (EECS) or Mechanical Engineering (ME). These academic programs enable students to explore engineering through hands-on, team-based projects. The fee for participating students is \$3,000, which includes housing, food, classes, books, lab materials, and group activities for the 4-week program. Financial assistance is available. (Open to US & international students.)