



GreenTECH Field Trips

The following selected field trip sites provide high school students with the opportunity to explore green technology facilities in the metropolitan area.

Black Rock Forest Consortium- Cornwall, NY.

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

On this field trip, students will take a tour of Black Rock Forest's sustainable facilities. Students will learn about their waterless toilets, geothermal energy, solar energy, composting, and recycling projects. There is also an optional short hike to the Upper Reservoir where students can learn about watersheds and be exposed to nature and wildlife.

No fee. School must provide transportation to the site.

Brooklyn Bridge Park, Brooklyn- NY.

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

A visit to Brooklyn Bridge Park will involve a guided tour of the park and its environmental features. These features include the park's water conservation initiatives, on-site solar energy generation, ecological initiatives, and material reuse. Students will also get a glimpse of the historical value inherent to the space and Brooklyn Bridge.

For the Spring 2014 BBP Conservancy Education Form please see the following link:

<https://brooklynbridgepark.wufoo.com/forms/spring-2014-bbp-conservancy-education-form/>

No fee for a self-guided tour. Specialized programs are offered for a \$100 fee.

Brooklyn Grange Rooftop Farm, Brooklyn, NY

<http://brooklyngrangefarm.com/>

On this field trip, the students will get a unique perspective on urban farming in New York City.

Brooklyn Grange is the leading rooftop farming and intensive green roofing business in the US. The students will get to visit the rooftop farm and observe the vegetables growing, as well as interact with the farmers and the rest of the team that makes this endeavor possible.

Con Edison- New York City.

<http://www.coned.com/partnerships/default.asp>

Con Edison will provide students with a tour of a power plant or a Con Edison educational facility.

Students will learn about electricity generation, efficiency, and smart grids. They will also be exposed to different career options in the energy industry and will be presented with the opportunity to join a career awareness program.

No fee.

Cook + Fox Architects- Manhattan, NY.

<http://cookfox.com/>

On this field trip, students will explore Cook + Fox Architects LEED Platinum-Certified office. Students will see first-hand, state-of-the-art energy efficiency and water reuse technologies. Students will also learn about LEED certification and how it relates to building performance and sustainable materials. Cook + Fox Architects designed the Bank of America Tower and many other green buildings and facilities throughout the city.

No fee. Maximum 20 students.

The Center for Architecture- Manhattan, NY.

<http://cfa.aiany.org/index.php?section=center-for-architecture>

At the Center for Architecture, students will acquire a general understanding of green design, green buildings, and architecture. The Center offers hands-on workshops that will illustrate and enhance learned concepts while providing an exciting experience.

Fee- Entrance to the Center is free. A 2-hour Exhibition/Student day includes an exhibition tour and a workshop and is \$300. Educational programs have a cost of \$300. A 1-hour exhibition tour is \$100.

Edenworks- Brooklyn, NY

<http://edenworks.org/>

Touring Edenworks' flagship farm and aquaponics laboratory is a great opportunity for students to get a glimpse of what urban farming looks like and what the science behind aquaponics entails. Their greenhouses pair natural ecosystems with cutting-edge technology to have impossibly fresh food grown right around the corner.

No fee.

The Highline- Manhattan, NY.

<http://www.thehighline.org/tours>

Exploring The Highline is a unique way to introduce students to the history of the park, urban planning, and sustainable design. Students will be able to understand the High Line's role in the preservation and reuse of a space, both important concepts for sustainable cities.

No fee for self-guided tour.

Guided Field Trip (with activities)- \$70.00 for groups of 15 or more, \$35.00 for groups of less than 15. Adults join the fun for free. Financial assistance is available.

Note- Guided Field Trips are only available for 2nd- 7th grade.

To request a guided field trip go to <http://thehighline.wufoo.com/forms/school-field-trips/>.

NASA Goddard Institute for Space Studies- Manhattan, NY.

<http://www.giss.nasa.gov/projects/gcm/>

On this field trip, students will be introduced to a division of NASA that focuses on climate modeling. Students will learn about the effect climate change has on Earth, the role human beings play in climate change, and what needs to be done to mitigate its effects.

No fee.

New York Transit Museum- Brooklyn, NY.

<http://www.transitmuseumeducation.org/trc/schoolvisits#schedulevisit>

This field trip includes a guided tour of the New York Transit Museum. Students will explore the multi-faceted story of public transportation by learning about the social history of New York City, engineering sciences, mathematics and the art of subway and station design. Students will also be introduced to the history of immigration and the urban landscape.

No fee for self-guided tour. Guided tour with a related hands-on activity is \$150 (25 students).

Newtown Creek Wastewater Treatment Plant- Brooklyn, NY.

http://www.nyc.gov/html/dep/html/environmental_education/newtown_visitors_center.shtml

At the Newtown Creek Wastewater Treatment Plant, students will take a tour of New York City's largest treatment facility and its visitor's center. Students will learn about water sources as well as wastewater and stormwater treatment and the role it plays in keeping our own waterways clean. Concepts such as Combined Sewer Overflow (CSO) and water conservation are clearly illustrated in this visit. The students will also have the opportunity to climb on top of the Digester Eggs.

Note- The Visitor Center Application form (below) must be completed and sent to educationoffice@dep.nyc.gov to schedule a field trip.

http://www.nyc.gov/html/dep/pdf/education/education_outreach_request_form.pdf

No fee.

NYC ACRE - Cleantech incubator- Manhattan, NY.

<http://www.poly.edu/business/incubators/nyc-acre>

On this field trip, students will explore the offices of NYC ACRE (Accelerator for a Clean and Renewable Economy) and learn about the benefits of clean technology and the concepts behind entrepreneurship.

No fee.

NYU CoGen Plant- Manhattan, NY.

<http://www.nyu.edu/construction/cogen/>

This field trip includes a tour of NYU's cogeneration power plant. This highly efficient natural gas-fueled plant uses its excess heat to provide heat and hot water for buildings around campus and helps the university reduce greenhouse gas emissions on a large scale. The students will acquire a general understanding of energy production, microgrids, and cogeneration.

No fee.

Queens Botanical Garden- Queens, NY.

<http://www.queensbotanical.org/visit/visit>

Queens Botanical Garden is a living museum and students will be able to explore its collection of exhibits and habitats. On this field trip, students will be exposed to different ecosystems and understand what the relationship is between nature and humans. The students will also tour the Garden's sustainable facilities.

No fee Nov. 1st through March 31st. \$2 entrance fee from April 1st to Oct. 31st. Self-guided tours are \$30. Guided visits range from \$125 to \$150.

The River Project

http://www.riverprojectnyc.org/education_fieldtrips.php

The River Project enables students to understand how green technology can be applied to our water systems. Students will learn how to use water- testing equipment and species- sampling equipment. Biodiversity and ecology are the main themes presented on this field trip.

FEE- \$15 per student.

The Science Barge- Yonkers, NY.

<http://www.groundworkhv.org/programs/science-barge/>

Students will be able to visit The Science Barge's green facility floating on the Hudson River and explore its greenhouse. The greenhouse grows fresh produce and is powered by solar, wind and biofuel energy. It also collects and reuses rainwater and filtered river water for irrigation.

FEE- Programs range from 1-3 hours and cost \$175-\$400.

Sims Recycling Education Center – Brooklyn, NY.

In this visit to the new state-of-the-art Material Recovery Facility in Sunset Park, Brooklyn, the students will watch videos and take an interactive quiz in the media center, will play with magnets, scales, air compressors, and conveyors in the activity center. They will also go to an overlook where they will see the machines and people that sort NYC's recyclables.

No fee. Book your visit here: <http://www.simsmunicipal.com/Education/The-REC/Schedule-a-Visit>

The Solaire- Manhattan, NY.

<http://www.thesolaire.com/index.html>

On a tour of this LEED Gold-certified residential building in Battery Park, students will see first-hand, state-of-the-art energy efficiency and water reuse technologies. Students will also understand the effects renewable energy and sustainable materials have on building performance.

No fee.