SUMMER SPRINGBOARD

Look Inward. Go Upward.

Middle School STEM: Exploring Engineering + Clean Energy Infosheet

New student admissions for Summer 2026 are open.

Middle School Course

This is a one-week program where you'll focus on one course for the entire duration.

Program Highlights

- Each day focuses on practical activities to help students understand engineering and sustainability concepts.
- Students will gain real-world problem-solving skills.
- Students will build a solar-powered car, gaining insight into how clean energy can power the future.
- Discover firsthand how these innovations are transforming industries such as medicine and urban development!
- Gain insights from professionals in the tech industries.

2026 Dates

Georgetown

- Session 1: July 5 - July 10
- Session 2: July 12 - July 17

Academic Program Overview

In this one-week program, students will explore solar energy and engineering through hands-on projects. They will begin by learning what solar energy is, why it's important, and how it is used, conducting a magnifying glass temperature test and unboxing materials for their solar car project. As the week progresses, students will build simple circuits using batteries, LEDs, and motors, then dive into the principles of weight distribution, wheels, and aerodynamics to design and assemble their solar-powered cars. They will refine their designs, test performance under different conditions, and apply what they've learned in a final competition where they race their completed solar cars. By the end of the program, students will have gained practical engineering skills and a deeper understanding of renewable energy in an engaging, hands-on environment.

Excursions

This summer, students will visit the Smithsonian National Air and Space Museum to explore exhibits on engineering, renewable energy, and innovations in transportation, and meet engineers and technology professionals to gain firsthand insight into real-world applications of science and technology. In past summers, students have also toured the George Washington University Engineering Lab, where they interacted with robotic technologies, engaged in conversations with robots, and explored brain imaging data highlighting neural activity differences related to ADHD and autism.

Instructors

Georgetown - Ekundayo Shittu

Ekundayo Shittu is a Professor in the Department of Engineering Management and Systems Engineering at GW's School of Engineering and Applied Science. He directs the Systems Modeling Laboratory for Economic Decisions (SysMoLED), where he collaborates with students and researchers to analyze the strategic interaction between firms' technology investments and the external environment using mathematical programming, transaction cost economics, and the resource-based view. He co-edited Renewable Energy: International Perspectives on Sustainability (Springer) and holds two patents for improving patient safety through condition-based maintenance of biomedical assets.

Tuition Information:

Residential Students:

- **Includes:** all meals, lodging, excursions, Academic Course, and evening activities
- **Excludes**: optional airport pickup and drop off service (available for an additional fee)
- **Price**: $2,998

Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 5pm on Monday-Thursday and 9am to 2:30pm on Friday
- **Excludes:** lodging, breakfast, dinner, and evening activities
- **Price**: $1,598

Supplements:

- Application fee: Starting at $99 (mandatory, non-refundable)
- $250 course supplement
- Tuition Protection Plan: Allows for cancellation for any reason up until the day of the program. Click here for more info.

Summer Springboard programs are not run by our campus partners (with the exception of Cal Poly, University of Washington Foster School of Business, and NYSID which are run in partnership with SSB). Universities and their affiliated departments and partners do not control and are not responsible or liable in any manner for any part of the Summer Springboard program.

Course Structure

There are five 3-hour class sessions over the one-week course. During the week, students have class from 9am-12pm, Monday - Friday (program check-out is 2:30 p.m. on Friday). Wednesday afternoon will be dedicated to additional academic time with possible excursions and/or guest speakers.

The Middle School programs operate separately from Summer Springboard high school programs with separate staff, accommodations, classes, and a more structured environment. For students completing grades 6-8.

Typical Schedule

8AM	Breakfast
9AM	Academic Course / Commuter Student Arrival
12PM	Lunch
1:30PM	Academic Excursions or Recreational Activity
3:30PM	Academic Skills Lab
5PM	Free-Time
5-6PM	Commuter Students Depart
6PM	Dinner
7PM	Evening Activity
8:30PM	Back in the Dorm
9:30PM	Mentor Check-In

More info on Airport Transfer

More info on Unaccompanied Minor Service

Apply Now!

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