

## SCIENCE, TECHNOLOGY, ENGINEERING AND MATH

STEM education combines rigorous academic coursework with practical, real-world experiences that spark learning.



### WHY IS STEM IMPORTANT?

Gaining skills and knowledge in the STEM disciplines is essential for student success, both academically and professionally. The Labor Department projects that by 2018, nine of the ten fastest-growing occupations that require a college degree will require significant scientific or mathematical training.

### WOMEN AND MINORITIES IN STEM

Reports suggest that stereotypes and lack of support of girls and minorities negatively affect their performance in the STEM fields.

### A ROLE FOR THE COLUMBIA GIRLS IN STEM INITIATIVE

As an Ivy-League university with more than 30 years of experience running high school programs globally, Columbia and its Girls in STEM Initiative are uniquely positioned to prepare underrepresented, high-achieving girls in the STEM fields. The School of Professional Studies has strong relationships with leading companies and faculty that wish to support emerging talent and tackle society's human capital issues.

### THE OBJECTIVE

The Columbia Girls in STEM Initiative prepares motivated high school girls from typically underrepresented populations for STEM studies in college in collaboration with industry leaders throughout the country.

### THE PROGRAM

Taught by Columbia University faculty, the program provides participants with a one week integrated learning experience that focuses on three strategic approaches:

1. **INTRODUCE** female STEM role models and leadership
2. **BUILD** a bridge between K-12 and college
3. **CONNECT** the STEM classroom to the real world

### PROGRAM DATES

San Francisco	June 12-16
Washington, DC	July 17-21
Miami	July 31-August 4
New York City	August 21-25

### PROGRAM SCHEDULE

Advisory Activity	9:00-10:00
Academic Course	10:00-12:00
Lunch	12:00-1:00
Leadership Program	1:00-2:00
Academic Course	2:00-4:00
College Readiness	4:00-5:00

### PROGRAM REQUIREMENTS

- Admission is selective and open to rising junior and senior female students.
- Application materials should establish that the student has the necessary academic background and level of ability, motivation, and maturity necessary for the program curriculum.



## RECOMMENDER

Please consider the following criteria in recommending participants for the Columbia University Girls in STEM Initiative. The program will be engaging and interesting. It will also be a rigorous academic experience. Students will be expected to attend class each day and to fully participate in all activities. Students should have the academic capacity and motivation necessary to participate in the program.

## STUDENT CRITERIA

### General Criteria

- Rising Junior or Senior female student who is in good standing at your school.
- Student demonstrates necessary motivation to

participate in a rigorous academic experience.

- Student has emotional maturity to fully participate in a week long pre-college immersion experience.

### Academic Criteria

- Student has successfully completed an advanced math course (Algebra II, Geometry, Pre-Calculus) and received a grade indicating she understands basic math concepts (likely an A or B in such a course).
- Student has successfully completed two of the three following science courses (Physics, Chemistry and Biology)

and received a grade indicating she understands basic science concepts (likely an A or B in all courses).

- Though there are no set minimum requirements such as a particular GPA, the application materials should establish that the student has the necessary academic background and level of ability, motivation, and maturity necessary for the curricular option for which he or she is applying.

## FOR MORE INFORMATION

Please email [girlsinstem@sps.columbia.edu](mailto:girlsinstem@sps.columbia.edu) with questions about the Columbia Girls in STEM Initiative.

**CLICK HERE TO APPLY**

*\*Due to the high-demand for this program, the first 200 applications in each city will be considered.*

## IMPORTANT DATES

### Application Deadlines

**March 15** Round 1 Application Deadline

**April 15** Application decisions sent out for Round 1

**April 15** Late application deadline

**May 1** Decisions made on a rolling basis for late applicants with final decisions going out by May 1st



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