



We are reaching out to encourage your students to apply to **Sound+Science**, an innovative after-school program for high school students passionate about the intersection of music, science and technology. Sound+Science is a mentor-driven program for high school students in New York City. We use music as an entry point into science, technology, engineering and mathematics (STEM), enabling students to engage in hands-on, project-based learning that connects music, culture and science. Guided by PhD students, college mentors and industry experts, students discover how physics, mathematics and technology come alive through sound.

Students work in a collaborative studio environment where they can create music projects using digital recording software and learn to write their own sound and music software. They are guided in translating scientific ideas like frequency, harmony, rhythm, and patterns into musical information through programming and experimentation. This process allows them to experience physics and math not as abstract equations, but as living tools for creative expression.

We meet every Tuesday and Thursday from 5 pm to 7 pm at our lab and studio in Civic Hall, 124 E 14th St, NYC, near Union Square. The program begins on October 7th and runs for eight weeks. Throughout the program, students will learn the science of sound, Logic Pro recording software, and how to program in Python, among other exciting topics. In parallel, they will design and create their own solo or group music- and science-related projects, such as coded musical pieces, data-driven sound compositions, collaborative performances or whatever interests them related to music and science.

Sound+Science is organized around three thematic modules: *The Hidden Codes in Electronic Music*, *Music Improvisation and the Mathematics of Computation*, and *From Hip-Hop to AI*. Each module blends hands-on practice with conceptual exploration, ensuring students develop both technical skills and creative confidence. Throughout the program, students are mentored closely by PhD students and local college STEM majors who help them connect concepts to practice. They also participate in master classes where musicians, producers, technologists and scientists share how their work at the intersection of music and STEM shapes entire industries.

The program builds toward a showcase in which students present their projects, allowing them to share their work with peers, mentors and invited guests and gain recognition for their creativity and achievement. At the end of the program, students receive a Certificate of Accomplishment which they can use in college and career applications. They may also request a recommendation letter from Dr. Alexander.

Sound+Science empowers underestimated high school students in New York City, many of whom face barriers to entering STEM fields. By grounding science in music and culture, the program keeps students motivated and engaged while fostering real technical skills. Through the combination of creating music, recording, coding and close mentorship, Sound+Science offers students a new way to imagine their futures and prepares them to pursue opportunities in STEM with confidence.

Applications are open now at soundplusscience.com/student-application. We sincerely hope you will share this opportunity with your students and help us reach young people who will thrive in this unique creative space.

Warm regards,

Stephon Alexander, Sound+Science President & Founder
Eric Singer, Sound+Science Operations Director

