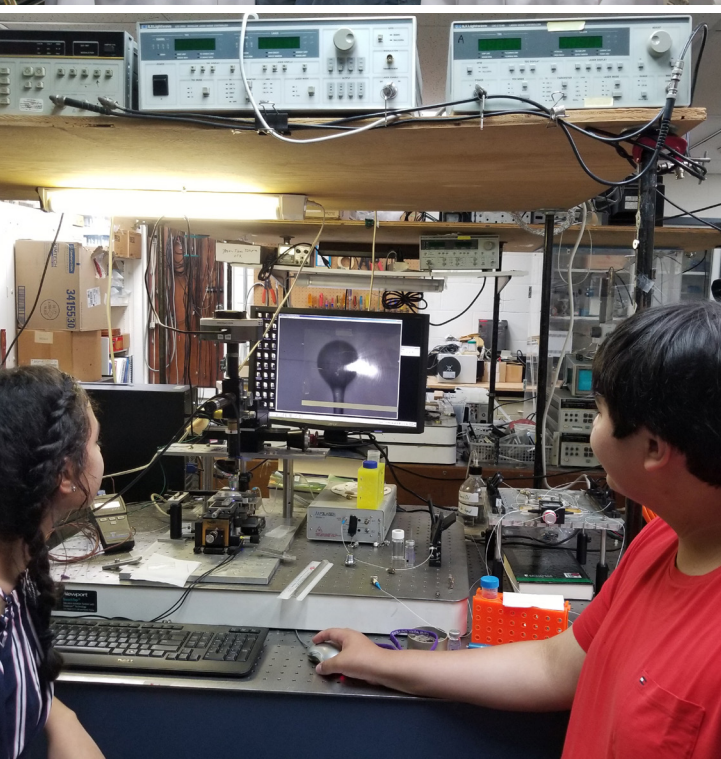
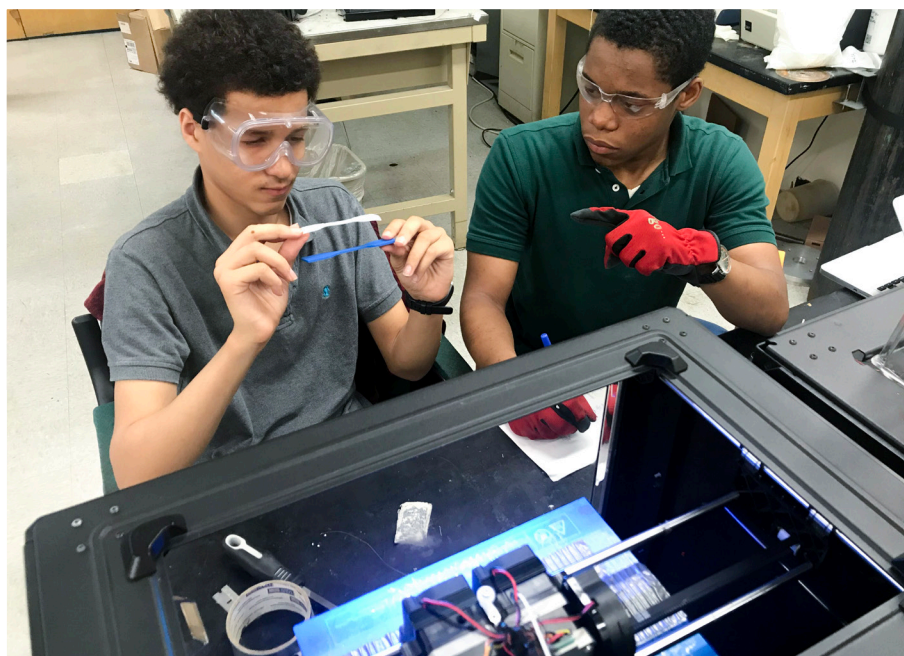
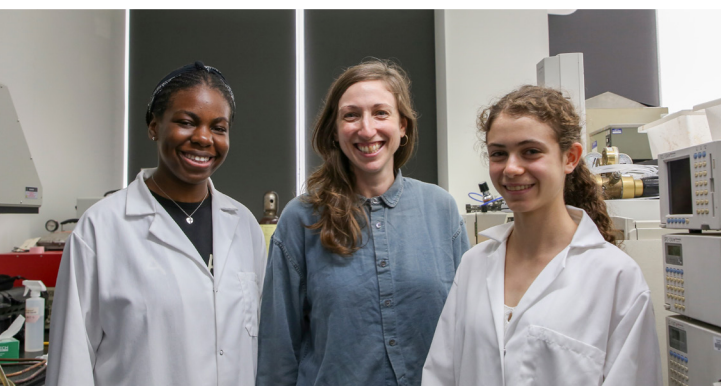


CENTER FOR K12 STEM EDUCATION

ARISE

Applied Research
Innovations in Science
and Engineering



Calling New York City's future innovators, makers, and doers...

Spend your summer gaining valuable experience and mentorship in science, technology, engineering, and math (STEM).

We're living in an increasingly information-based and automated society that needs ambitious and well-prepared students, so the NYU Tandon Center for K12 STEM Education is seeking motivated 10th and 11th grade students for our Applied Research Innovations in Science and Engineering (ARISE) program.

The seven-week program offers an engaging hands-on lab experience, development of valuable speaking and presentation skills, and guidance in preparing for the college application process. Students will be introduced to scientific ethics, contemporary issues in scientific inquiry, data collection and analysis, research practices, lab safety, and more to prepare them for higher education and in-demand careers.

The best part — ARISE is free for accepted students. We believe anyone with curiosity

in a vital area like cybersecurity, wireless technologies, smart cities, biomedical engineering, and sustainability should have a chance to explore it.

We focus on serving students from demographic groups currently underrepresented in the STEM fields — students of color, girls and young women, and those from less financially advantaged backgrounds — because we think the STEM world should be an inclusive one, reflecting the drive and diversity of the city we call home.

PROGRAM DETAILS

Additional ARISE Program Information

The full-time, 7-week program includes:

- A high-level, 5-week authentic research experience in participating NYU faculty labs
- Mentoring in that placement by a graduate or postdoctoral student
- A stipend of at least \$500 for completing the program
- Two weeks of workshops, college advisement and other activities geared to preparing ARISE students for the college application process

With their mentors, ARISE participants will spend the latter five weeks of the program in one of over 30 labs where they will make practical, substantive contributions to the lab's research objectives, which span engineering, life sciences, and computer and data sciences. Subject areas include:

- Anthropology
- Biology
- Biomedical Engineering
- Chemical and Biomolecular Engineering
- Civil and Urban Engineering
- Computer Science and Engineering
- Electrical and Computer Engineering
- Mechanical and Aerospace Engineering

Students will also receive training in presentation and public speaking skills, in collaboration with ARISE's partners at Irondale Ensemble Project, and present their research findings with NYU faculty and graduate students, their peer ARISE participants, other academic experts, family members and friends at the program's conclusion.

Who Should Apply

We're looking for academically prepared, highly motivated students with a passion for science, technology, engineering and math who:

- Are completing 10th or 11th grade in June 2020
- Are New York City residents
- Have a demonstrated ability to make and fulfill commitments, and a dedication to timeliness and persistence
- Can and will attend the entire program, full time (approximately 9 am–5 pm, Monday–Friday), from June 29 to August 14, 2020, and an orientation in the afternoon of June 26, 2020 starting at about 1:00 pm.

We cannot accept applications from students who reside outside of one of the five NYC boroughs. Students who will be living in NYC for the summer, only, or who attend school in NYC but live outside of NYC are not eligible.

KEY DATES

March 1, 2020 • 11:59 pm

Student online applications due.

March 6, 2020 • 5:00 pm

Recommender online responses due.

Week of March 30, 2020

Notification of applicants invited to continue with the application process by attending lab tours and group interviews at the School of Engineering or College of Arts and Sciences.

April 20–21, 2020

Mandatory lab tours and group interviews.

On or around April 23, 2020

Notification of applicants invited to continue with lab interviews.

May 3, 2020

Mandatory afternoon of on-campus interviews with lab personnel and mentors.

May 8, 2020

Notification to selected applicants offered lab placements.

May 12, 2020

Students offered placements must accept or decline the offer.

June 26, 2020 • Approximately 1:00 pm

Orientation for accepted students.

June 29–August 14, 2020

ARISE runs full-time, five days per week (except July 4). The final colloquium will be held on the last day, August 14, 2020.