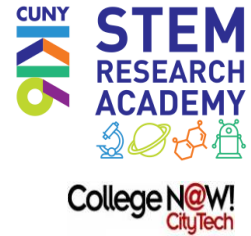# 2024 College Now
# STEM Research Academy
# @ NYC College of Technology
**A FREE Spring to Summer Science Program**

The College Now STEM Research Academy at City Tech is a two-part program designed to provide high school students with an opportunity to develop strong college level research skills by engaging in authentic science inquiry and research activities. Selected students will be enrolled into a free Spring 2024 pre-college research course. Upon successful completion of the spring course, students will have the opportunity to apply for the 2024 STEM Summer Research Internship.

The summer program is FREE to students. College Now covers the cost of tuition, books and supplies. Students who participate will also receive a City Tech College ID card, free lunch on Mondays, metro card, and stipend upon completion of the summer internship program.

## Program Description and Schedule

**SPRING** 2024
Saturdays, 10:00am-2:00pm, **February 17th to June 1st** (15 weeks)

**INTRODUCTION TO SCIENCE RESEARCH COURSE**
- This course is designed to strengthen basic skills such as formulating researchable questions, designing testable experiments, performing literature searches in library databases, and reading scientific literature including peer-reviewed journal articles. Participants conduct experiments in a science lab and field research at sites throughout Brooklyn, with the purpose of preparing them for a summer research experience with CUNY research faculty (class meetings for this hybrid course will be conducted both on-campus and remotely). They engage in research on a topic in the field of biology or chemistry, learn to formulate a question and hypothesis, design an experiment, analyze results, and present findings in a scientific format.

**SUMMER** 2024
Students who complete the spring course will have the opportunity to apply for the summer STEM internship:

- **RESEARCH INTERNSHIP** ($1575 stipend)
  Monday-Thursday, 9:00am- 4:00pm, **June 27th –-August 15th** (6 weeks)

  Selected students will participate in a six-week structured laboratory program where they are matched with a City Tech faculty researcher and lab team, based on the student's area of interest. In addition to working in a research lab four days a week, students will be required to participate in a once-weekly college seminar and discussion group, conduct their own short research project, write a paper discussing their findings and present these at the Summer Science Symposium in the American Museum of Natural History.

## MINIMUM Requirements for the STEM Research Academy Spring Course

In order to be eligible for the College Now STEM Research Academy @ City Tech, students must meet the minimum requirements:

- Sophomore or Junior
- Completed Essay

## PREFERRED Requirements for the STEM Research Academy Spring Course

- Overall HS average of 80+
- English scores/grades:
  - ELA Regents 75+
  - or SAT Verbal/Critical Reading 480+
- 80+ on Living Environment Regents
- 80+ on any one Math Regents
- Passed all other required math, science and history regents exams taken so far
- Haven't taken the Regents or SATs? That's OK! Students who have not taken the Regents or SATs will be evaluated based on the subject-area GPAs on their high school transcripts

## Application Process

To apply you must:

1. Fill out the attached application.
2. Obtain the required parental and school staff **signatures**.
   - *Parent Permission and Consent Form*
   - *CUNY Off-Campus Activity Waiver* – please complete **Pages 7**, **8** (student signs) and **9** (completed by parent). Other pages can be left blank. NO notarization required.
3. Complete a one- to two-page, typed **essay** discussing your areas of interest in science, explaining what you hope to gain from STEM Academy participation and what makes you a great candidate for the program.
4. Attach your most recent **high school transcript**.
5. You or your guidance counselor **must ensure that your application is received** by the College Now office via mail or email (see below) by **Friday, December 22, 2023.**
6. Final acceptance decisions will be made and candidates will be informed of their acceptance status by **Friday, January 19ᵗʰ, 2024.**

# College Now
## STEM Research Academy
## @ NYC College of Technology

**HAVE YOU PARTICIPATED IN COLLEGE NOW BEFORE?** ❏YES ❏NO

Please **PRINT** <u>clearly</u>

| LAST NAME | | FIRST NAME | | MI |
|---|---|---|---|---|

| OSIS # | SSN | GENDER (circle)<br>M or F | DOB<br>(mm/dd/yy) |
|---|---|---|---|

| STREET ADDRESS | APT.# |
|---|---|

| CITY | STATE | ZIP CODE |
|---|---|---|

| HOME PHONE # | YOUR CELL PHONE # | PARENT CELL PHONE# |
|---|---|---|

| EMAIL |
|---|

| HIGH SCHOOL ETS CODE | HIGH SCHOOL NAME |
|---|---|

| OVERALL HS GPA | ELA REGENTS SCORE | MATH REGENTS SCORES<br>ALEBRA 1　| GEOMETRY　| ALBERA 2/TRIG | MATH GPA |
|---|---|---|---|

| LIVING ENVIRONMENT REGENTS SCORE | SCIENCE GPA | SAT VERBAL/CRITICAL READING SCORE | OTHER SCIENCE REGENTS SCORES |
|---|---|---|---|

**RACE/ ETHNICITY**

**1. Are you Hispanic:** ❏Yes ❏No

**2. Select one or more races:** ❏Black / African American
❏Asian ❏White ❏Native Hawaiian/ Other Pacific Islander
❏American Indian or Alaska Native

CITIZENSHIP STATUS (OPTIONAL): ❏ US Citizen ❏ Other
❏ Permanent Resident ❏ I don't know

PARENT/GUARDIAN'S HIGHEST EDUCATIONAL LEVEL (OPTIONAL):
❏ Post/Grad., Professional ❏ College Degree ❏ Some College
❏ HS Grad. ❏ Some HS ❏ 8th grade or less ❏ I don't know

_____　_____
**Student signature**　　　　　　　　　　　　　　　　　　**Date**

I have read the information on this application carefully, and I understand that if I am accepted into the City Tech College Now STEM Research Academy, I am expected to complete the course in spring 2024 and, if accepted, participate in the City Tech College Now STEM Summer Research Program in summer 2024.

_____　_____
**Parent/Guardian signature**　　　　　　　　　　　　　　**Date**

I have read the information on this application carefully, and I understand that if my child is accepted into the City Tech College Now STEM Research Academy, s/he is expected to complete the course in spring 2024 and, if accepted, participate in the City Tech College Now STEM Summer Research Program in summer 2024.

_____　_____
**Guidance counselor signature**　　　　　　　　　　　　**Date**

I have read the information on this application carefully. I recommend this student to participate in the City Tech College Now STEM Academy and agree to follow up with the student as necessary to support his/her success in the program.

❖ **Application, essay, and updated transcript must be submitted via email to [CollegeNow@citytech.cuny.edu](mailto:CollegeNow@citytech.cuny.edu) OR mailed to the College Now Office at CITY TECH, 300 JAY STREET, Pearl Building, Room P613, by <u>Friday, December 22nd, 2023.</u>**

**Call 718-260-5206 if you have any questions.**