<table>
<thead>
<tr>
<th>Serves over 4,300 elementary &amp; secondary students yearly</th>
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<tbody>
<tr>
<td>Talent Search serves 728 Newark 6th-12th graders annually</td>
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<tr>
<td>681 high school students taking Dual Enrollment courses during the year</td>
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<tr>
<td>80% of Upward Bound seniors enrolled in college last year</td>
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<td>100% of seniors completing Math Success Initiative accepted to NJIT</td>
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<td>1,200 students competed in CPCP-sponsored competitions</td>
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<td>Over 70 UBELLs students have pursued post-secondary education in the past 3 years</td>
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<td>423 students from 43 Newark K-8 schools attended 1st Newark STEM Day</td>
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<tr>
<td>93% of NJGEARUP / College Bound seniors enroll in post-secondary education</td>
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<tr>
<td>12 years hosted Bernard Harris Summer Science Camps</td>
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<td>468 teachers from over 30 districts annually participate in Professional Development</td>
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<tr>
<td>1,900 4th-12th graders in 23 summer programs of 1-7 weeks</td>
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NEW JERSEY GAINING EARLY AWARENESS AND READINESS FOR UNDERGRADUATE PROGRAMS (NJ GEAR UP) / NEW JERSEY COLLEGE BOUND (NJ COLLEGE BOUND)

Offers educational support and assistance to Newark middle and high school students to help them prepare for, enroll in, and successfully graduate from a college or university. Beginning in 2020, services include college freshmen. The programs are jointly funded by grants from the U.S. Department of Education and the State of New Jersey through the Office of the Secretary of Higher Education. Students participate in a 4- to 6-week summer program and/or a 20-week academic-year program, including Saturday instruction, field trips, college tours, tutoring, mentoring, counseling, STEM instruction, and other support services. Participants also have in-school and after-school tutoring during the school year at designated target high schools: Central, East Side, Barringer, and Weequahic; and middle schools: Hawkins Street, Belmont Runyon, Lafayette Street, Ridge Street, Sussex Avenue, and Wilson Avenue.

UPWARD BOUND FOR ENGLISH LANGUAGE LEARNERS (UBELLs)

Addresses the needs of low-income high school students where English is not the primary language as they make their way toward first-generation admission to college. In addition to attending academic classes in math and science, UBELLs students receive support in achieving competence in English and instruction in goal setting, study skills and time management. Charged with enhancing students’ college readiness and success, UBELLs also preps parents unfamiliar with the college process through financial aid and enrollment counseling. UBELLs services are free, as are books, instructional supplies, field trips, meals and tickets for public transportation. The program is provided for 20 weeks during the academic year and 6 weeks over the summer for students from Barringer and East Side High Schools. UBELLs is a federally-funded collaboration among NJIT, the Newark Public Schools, and NJ GEAR UP/College Bound and is designed for students in 9th through 12th grades.

TRIO PROGRAMS

Federally funded collaboration between NJIT and Newark Public Schools, designed for students in 6th through 12th grades.

Upward Bound

Serves 9th- to 12th-grade low-income students between the ages of 13 and 19, who will be the first generation in their families to attend college. The goal is to increase the rate at which participants enroll in and graduate from institutions of higher learning. The free program features an academic-year component that meets on-campus on Saturdays throughout the school year, as well as a six-week intensive, residential summer component. Students take classes in literature, composition, science, math, foreign language, art, computer science, architecture, psychology and more. Field trips are included as well, both during the school year and over the summer.

Talent Search

Helps prepare middle school students for high school and high school students for college or a career of their choice. Participants are primarily from low-income households and are potentially first-generation college students. It is the intent of the free program to have students enroll as 6th graders and continue on until high school graduation. During the academic year, as well as through a summer enrichment program, students are provided with the necessary instruction and motivation to succeed. They also develop test-taking skills and take part in computer classes and cultural, social and recreational activities.

NJIT/NEWARK MATH SUCCESS INITIATIVE (MSI)

Identifies select 12th grade students from partner high schools to strengthen their mathematics knowledge, skills, and preparation for STEM majors. The goal is to support students for potential admission to NJIT ready to take at least calculus. The first cohort of students began in July 2019. The program is a collaborative among the NJIT President’s Office through the Center for Pre-College Programs (CPCP) and the College of Science and Liberal Arts (CSLA), the Newark Board of Education (Newark BOE), and the City of Newark.

njit.edu/precollege
EARLY COLLEGE PREPARATORY PROGRAMS

Tuition- and donor-funded programs designed for students who have completed 4th through 11th grades.

Academy College Courses for High School Students
Provides high-achieving high school students, grades 10 to 12, the opportunity to earn up to eight college credits per semester or session. Credits are transferable to NJIT or other universities. Small classes meet at NJIT on Saturdays during the academic year and daily during the summer.

Options for Advanced Academic Achievement
Offers an opportunity for qualified high school students from partner schools to earn college credits at their school during the academic year. Courses are taught by high school teachers certified by NJIT as adjunct faculty members, and require the same syllabus, textbook and prerequisites as the on-campus course.

On-Campus Summer Programs

Co-educational Four-Week STEM-Focused Programs
Prepares high-achieving students after they complete grades 4 to 11 to succeed in STEM fields. Themes by grade include: Environmental Science and Engineering Program (ESEP, 4th); Aeronautical Engineering Program (AEP, 5th); Pre-Engineering Program (PrEP, 6th); Explore Careers in Technology and Engineering (ExCITE, 7th); Chemical Engineering Program (CHEM-ENG, 7th); Introduction to Chemical, Industrial and Mechanical Engineering (IChIME, 7th-8th); Biomedical Engineering Program (BIO-MED, 8th); Intermediate Robotics (iRobotics, 9th); Crime Scene Investigation (CSI, 10th); and Fundamentals of Physical Science (FPS-Chemistry and FPS-Physics, 9th-11th).

Co-educational One-Week College Prep Boot Camp
Provides rising 9th to 12th grade students with a comprehensive college preparation course, including SAT/ACT prep, notetaking, organization, self-advocacy and self-care, study skills, personal statement and resume, financial aid, athletics, interviewing, and choosing a college that’s right for you.

Women in Engineering and Technology Initiatives FEMME Program
Encourages girls who have completed grades 4 to 10 to explore STEM fields. The 4-week summer experience includes classroom discussions, laboratory experiments, projects and field trips; and focuses on the following engineering themes by grade: environmental (4th), aeronautical (5th), mechanical (6th), chemical (7th), biomedical (8th), computer coding (9th), and forensic science (10th).

Competitions

Elementary STEM Competition (eSTEM)
Teaches teams of 3rd through 5th graders and their teacher-coaches from underserved and underrepresented schools/districts how to participate in a STEM competition exclusively for elementary students. Utilizing the fundamentals of engineering design, collaboration, and advanced problem-solving skills, students work with an NJIT student-mentor in a structured, supported competition format to research, design, build and share a working model that can solve real-world environmental problems.

New Jersey Science Olympiad
Serves as a New Jersey regional site for this national competition. Each year CPCP hosts middle and high school teams from across the state to compete in a wide range of science events. Supported by volunteers drawn from NJIT students, faculty and staff as well as employees from a variety of New Jersey businesses and industries, teams engage in wide-ranging activities that nurture science inquiry.

TSA - Teams
Hosts, coordinates and judges the TEAMS Competition for the NJIT chapter of the Technical Students Association. Middle and high school students compete against peers in both prepared and on-site components. There is also a professional development component for adult coaches.
PROFESSIONAL DEVELOPMENT

Develops and expands professional learning to support student growth across STEM fields. All professional development sessions, in person or virtual, feature active engagement, collaboration, hands-on learning, theory, practice, formative and summative assessment techniques, and connections to the New Jersey Student Learning Standards. Emphasis is on available, age-appropriate materials and classroom-ready lessons to build capacity for STEM learning in schools/districts, particularly among underserved and underrepresented student populations.

FAMILY PROGRAMS

Encourages families to learn STEM topics along with their children, STEM Family Programs provide hands-on, minds-on learning in an engaging, collaborative setting for 3rd through 7th graders and their significant adults. All materials are supplied and are readily available so families can continue explorations at home. Some previous topics for family workshops include: Give Me a Hand: building assistive technologies/biomedical engineering, Code Saves the World: computer coding and gaming to solve problems, and CSI-NJIT: forensic science techniques.

FORENSIC SCIENCE INITIATIVE (FSI)

Uses an introduction to Forensic Science as a stealth mechanism to prepare reluctant high school science students for STEM college work and careers. Also prepares high school teachers to teach Forensic Science as a high school course. Supported by a grant from the NJ Office of the Secretary of Higher Education.

FOR MORE INFORMATION

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