

NJIT™

New Jersey's Science &  
Technology University



# PREPARING THE NEXT GENERATION

## Pre-college Paths to the Edge at NJIT

With more than \$5 million in NSF support, NJIT launched a series of innovative strategies to better prepare urban students to pursue 21st century engineering and science careers. Among the programs designed to enrich and strengthen high school curricula in science, mathematics and engineering in New Jersey's high-needs school districts:

- C<sup>2</sup>PRISM, led by **Fadi Deek**, dean of the College of Science and Liberal Arts, places NJIT doctoral students into Newark high schools. The graduate students, who use computational techniques for cutting-edge research in mathematics or the physical sciences, team with high school teachers to develop curricula to teach students how to think analytically.
- Medibotics, directed by **Ronald Rockland**, associate dean of Newark College of Engineering, helps teachers high-needs areas to launch a new program in which their students design and build robots to simulated biomedical procedures.
- TECHS-NJ, supported through the NSF's Robert Noyce Scholarship program and directed by **Bruce Bukiet**, associate professor of mathematical sciences, provides scholarships to math and science majors who also earn a teaching certificate and agree to teach in New Jersey's high-need schools after graduation.



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