40 Glorious Years!

Join us on a visual tour of CPCP’s past, present & future

1979 - 2019
Inspiring Young Minds for College Access and Success in Science, Technology, Engineering and Mathematics

FEMME (Females in Engineering: Methods, Motivation and Encouragement) 1981- present

UBELLS “crafting” the future
Our Programming has supported STEM Education before there was “STEM”

Launching rockets on the Green

Sticky stuff in EMBHSSC

Aeronautical engineers-in-training design and build hot air balloons

NJIT
New Jersey Institute of Technology

Center for Pre-College Programs
Wide Range of Experiences

• Hands-on Workshops - Professionals & Students
• Development of Curriculum and Assessment
• Academic Year and Summer Opportunities
• College Tours
• Cultural and STEM-related Field Trips
• Student Competitions
• Conferences for Students and Adults
• Family Education
Early College Prep – Summer Camp

In the 80s …

… students explored technology
Early College Prep – Summer Camp

Today …

… students explore a wide range of engineering specializations
Exxon Mobil Bernard Harris Summer Science Camp

12-year collaboration with Dr. Bernard Harris supported in part by Exxon-Mobil Foundation
Early College Prep – Competitions

NJ Science Olympiad • TSA TEAMS • Panasonic

Creative Design Challenge
Early College Prep – Academy; Options for Advanced Academic Achievement

- **Academy:** On-campus college courses for high school students
- **Options:** NJIT courses taught by approved high school faculty at their schools
- **Successful completion includes an NJIT transcript**
TRiO - Talent Search & Upward Bound

• Federally funded programs for Newark students providing academic, career, and financial counseling to encourage post-secondary enrollment, success and graduation
TRiO - Talent Search & Upward Bound

Working with NJIT professors and staff
TRiO - Talent Search & Upward Bound

Developing cultural awareness
TRiO - Talent Search & Upward Bound

Attending lectures, conferences and presentations

Celebrating graduations
UBELLS – Upward Bound for English Language Learners

• Federally funded supports for English Language Learners

Consistent in-school support
UBELLs – Upward Bound for English Language Learners

College guidance & college fairs
UBELLLs – Upward Bound for English Language Learners

Conferences & recognitions
College Bound / GEAR UP

- State / Federally funded supports for underrepresented / underserved students in Newark
- Academic support, SAT/ACT prep, counseling, and more
College Bound / GEAR UP

Knowledge Bowl 2003

Educational enrichment
College Bound / GEAR UP

Tours of college campuses and cultural sites
College Bound / GEAR UP

Achievement, Recognition and Celebration
Special Programs

Newark Public Schools’ STEM Day 2019

Student teams complete STEM tasks with assistance from NJIT students and outside volunteers

Held in the WEC with a campus scavenger hunt
Medibotics

• NSF-funded program linking physics and biology to the engineering design process
• Students simulated medical procedures using LEGO NXT Mindstorms™
Professional Development

Developing an understanding of equilibrium led by Dr. Moshe Kam

Engineering brain safety – for TSA TEAMS coaches led by Dr. Burr-Alexander
Professional Development

• Utilizing NJIT state-of-the-art facilities: Makerspace
STEM School Leadership Forum

Dr. Bernard Harris, Keynote speaker 2018

Students present to Leadership Forum attendees

Attendees discuss points made during a presentation
School Partnerships

- We help to develop STEM / STEAM programs in districts and schools

St. Rose Grammar School
Belmar, NJ
Mr. Greg Guito, Principal
School Partnerships

• We facilitate NJIT faculty collaborations with partner districts and schools

STEM Innovation Academy of the Oranges

Dr. Tina Powell, Orange Public Schools
Prof. Thomas Jaworski, NJIT Civil Engineering
STEM Family Workshops

• Engaging parents and children in the excitement of STEM
Planning for the Future

New in 2020:

- *Forensic Science Educational Conference* in collaboration with Prof. David Fisher, NJIT Forensic Science Department and the American Academy of Forensic Sciences
  January 14-16, 2020  NJIT campus

- *Elementary STEM Competition* Grades 3-5 Spring 2020  NJIT campus
Friends of CPCP

- We welcome community engagement and participation in our programming

- Time, Talent & Treasure: We accept financial support through the Foundation @ NJIT and many forms of in-kind support directly through the Center

- To join us as a Friend of CPCP or for more information, contact:
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The CPCP Staff – Dedicated to Supporting STEM Education