Connecting Students to STEM Opportunities

NYOKA JOSEPH, EDM
ACADEMIC COUNSELOR, PRE-COLLEGIATE PROGRAMS
ACADEMIC SUCCESS AND ENRICHMENT PROGRAMS (ASEP), BARNARD COLLEGE
PRESENTATION ON JULY 29, 2016
Objective

What can I do?
What we do

Preparation

Inspiration
Outline

- Why is STEM important
- What are STEM Hubs/Communities
- Student and Parent Engagement
- What can we do
- Resources
Why is STEM Important

- Engages students in real world settings
- Economy creates new opportunities for scientists
- Technology continues to revolutionize every day life
- Increased Earning Potential
STEM Hubs/Communities

- K-12 Schools
- Community Organizations
- Colleges/Universities
- Businesses
Student and Parent Engagement

DREAM
- Engineer
- Doctor
- Nurse
- Architect
- Teacher
- Accountant
- Law Enforcement
- Lawyer

ACTION
- Communicate
- Challenge
- Recognize Potential
- Connect
- Practical
- Try everything
What can we do

- Encourage Students to connect to Mentors
- Connect students to opportunities
- Complete real life application projects
Encourage Students to connect to Mentors

- Connect with Undergraduate/Graduate Students/Organizations
- Shadow Professionals
- Host Professionals

Students
Connect Students to Opportunities

- **Programs**
  - Science and Technology Entry Program (STEP)
    - Barnard College STEP Program
  - American Museum of Natural History
    - After school Program
    - Bridge Up STEM
    - Saltz Internship Program
    - Science Research Mentoring Program
  - Architecture, Construction, Engineering (ACE) Mentor Program
  - New York Hall of Science
  - Code Now
  - Black Girls Code

- **Competitions**
  - Robotics

- **Site Visits**
  - Tech Industry Firms
  - Sesame Street
  - Dental Schools
  - Nursing Schools
  - Hospitals
  - Architecture Firms
  - Park Conservancy
  - Museums

- **College Tours**
Complete real life application projects
Resources

- NASA BEST (Beginning Engineering, Science and Technology)
- NASA Office of Education
- New York State STEM Education Collaborative
- STEM Careers
- Discovery Education STEM Resources
- National Education Association: The 10 Best STEM Resources
- Global STEM Alliance: The New York Academy of Sciences
- STEM x
- CNY STEM
- World Wide Learn: Guide to Majors-Science
Thank You

Njoseph.bc@gmail.com