Biotechnology and Bioengineering Career Program (BBC)

A program funded by the National Science Foundation
Award No. DUE-0965874

Bioengineering:
- Gen Chem I and II (CHM 11, 12)
- Calculus I, II, and III (MAT 15,16, 21)
- Differential Equations (MAT 55)
- Applied Linear Algebra (MAT 82)
- Biostatistics (MAT 91)
- Adv Gen Physics I and II (PHY 13 and 14)
- Engineering Design (EGR 21)
- Intro to Electrical Engineering (EGR 22)
- Introduction to Engineering Thermodynamics (EGR 23)

Biotechnology:
- Gen Bio I and II (Bio 13,14)
- Microbiology (BIO 50) OR Genetics (BIO 59)
- Molecular & Cellular Bio (BIO 65)
- Cell Tissue/Cell Cloning (BIO 57) OR Recombinant DNA (BIO 58)
- General Chem I and II (CHM 11 and 12)
- Biostatistics (MAT 91)
- Bioinformatics (BIO/CIS 60)

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- Start at KCC and transfer to senior colleges: Brooklyn College (Biotechnology), City College of New York (Bioengineering) or Stony Brook (Bioengineering),

- Receive a $2000 stipend ($500 per semester) while at KCC AND an additional $4000 scholarship money at Brooklyn College, City College of New York, or Stony Brook,

- Have the opportunity to participate in research projects or internships at area medical centers and/or research labs.
Bioengineering and Biotechnology are broad fields with many career paths that address challenges in the fields of biology/life sciences, and DNA Technology. **Bioengineering** focuses on product design, sustainability and analysis to improve the utilization of biological systems. **Biotechnology** is the application of biological processes, organisms, or systems to manufacture products that will improve the quality of human life.

### Why choose bioengineering/biotechnology?

- Recession-proof careers
- Attractive starting salaries
- Projected growth in the job market
- National and international career opportunities

### How do I apply?

Submitting an application, found on our link on the KCC website, as a **Word attachment**, to KCCBCC@gmail.com. Student selection based on: GPA (minimum cumulative GPA of 2.7, as well as a GPA of 3.0 in math and sciences); major and career interest.

### Student Benefits:

- Financial support of $2,000 while at KCC ($500 per semester, up to four semesters).
- Financial support of $4,000 upon successful transfer to Brooklyn College, City College or Stony Brook.

### Student Requirements:

- 2.7 cumulative GPA, and a 3.0 GPA in the math and science courses
- Honors Pre-calculus (MAT 14) and Biostatistics (MAT 91) classes with a minimum final grade of B
- Participation in BBC Forums, which include guest lectures, seminars, etc...
- Students in the **Bioengineering** cohort will be required to take the **Applied Linear Algebra and Vector Analysis** (MAT 82) course
- Students in the **Biotechnology** cohort will be required to take the **Bioinformatics course** (Bio/CIS 60)

### Program Activities:

- Research Mentoring
- Internships
- Annual City-wide Science Competition
- Science Career Day
- New York Academy of Sciences
- BBC Forums

### Participating Faculty:

- Prof. I. Balsim - Math and Computer Science
  IBalsim@kingsborough.edu
- Prof. M. Dawson—Biological Sciences
  MDawson@kingsborough.edu
- Prof. S. Jahangir—Biological Sciences
  SJahangir@kingsborough.edu
- Prof. S. Majewicz—Math and Computer Science
  SMajewicz@kingsborough.edu
- Prof. J. Mancini—Physical Sciences
  JMancini@kingsborough.edu

### Contact us at:

KCCBCC@kbcc.cuny.edu