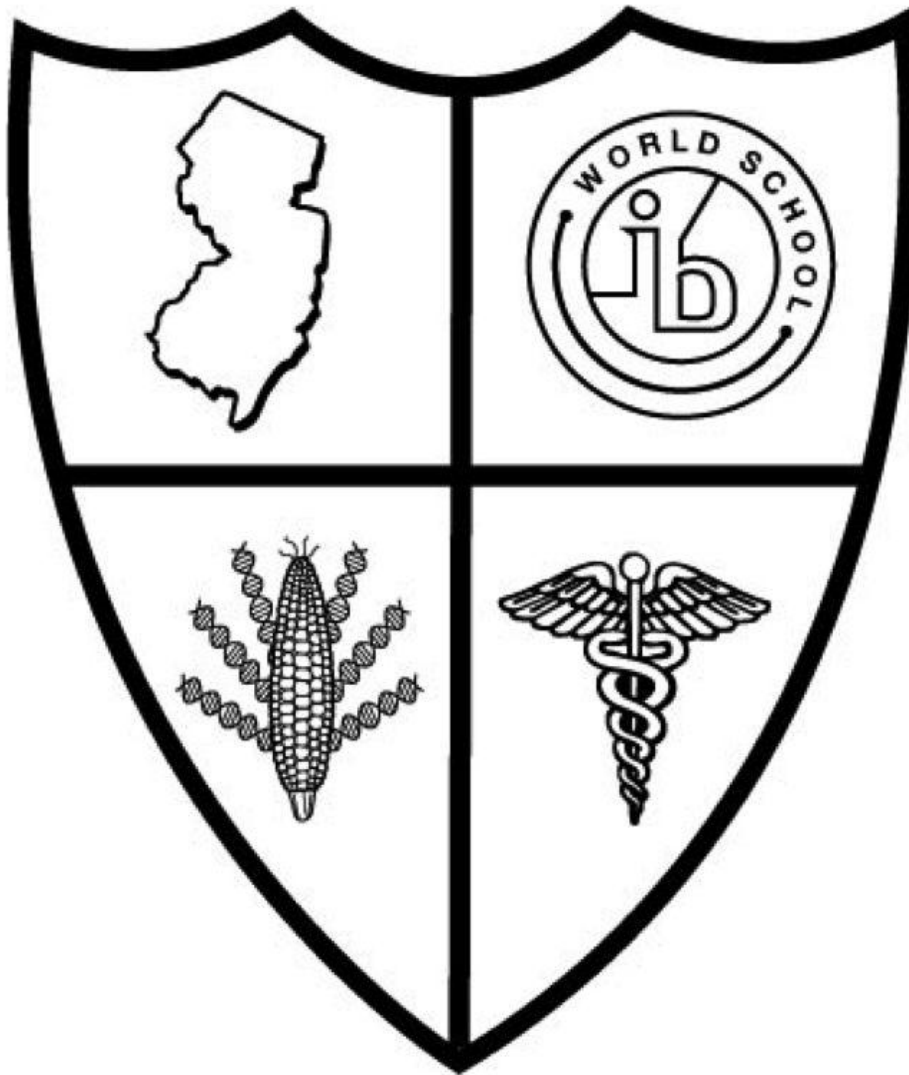


# Biotechnology High School

Monmouth County Vocational School District

## Prospectus 2017-2018



5000 Kozloski Road  
Freehold, New Jersey 07728  
732-431-7208  
[bths.mcvsd.org](http://bths.mcvsd.org)

Caring

Balanced

Communicators

Inquirers

Knowledgeable

Open-minded

Principled

Reflective

Risk-Takers

Thinkers

**An International Baccalaureate World School**

*"Excellence is in our DNA"*

# Biotechnology High School

## Biotechnology High School

5000 Kozloski Road  
Freehold, NJ 07728

Phone: 732-431-7208  
Fax: 732-431-1395  
bths.mcvsd.org

Sean Meehan  
Principal

## Monmouth County Board of Chosen Freeholders

Lillian G. Burry  
Director

John P. Curley  
Deputy Director

Thomas A. Arnone  
Gary J. Rich, Sr.  
Serena DiMaso, Esq.

## Monmouth County Vocational School District Board of Education

Clement V. Sommers  
President

Dennis Ingoglia  
Vice President

Joseph A. Manfredi  
Brian D. McAndrew, Ed.D  
Lester W. Richens, Ed.D

## Monmouth County Vocational School District Central Office Administration

Timothy M. McCorkell  
Superintendent of Schools

Anthony J. Schaible  
Assistant Superintendent

Collette Flatt  
School Business  
Admin. / Board Secretary

Joseph Senerchia  
Director of School  
Counseling Services

Kelly Harmon  
Assistant Principal of  
Curriculum & Instruction

## Mission Statement

Biotechnology High School, an International Baccalaureate World School, integrates life science, technology, and engineering into a rigorous curriculum that inspires students toward open-minded participation in the global community and prepares them for higher education and leadership in an increasingly demanding workplace through scholarly research, original investigations, and interactive partnerships.



## School & Community

The Monmouth County Vocational School District (MCVSD) prepares students for an evolving workplace, lifelong learning, and further education. Biotechnology High School (BTHS), an International Baccalaureate (IB) World School, is one of MCVSD's five Career Academies. BTHS students are selected through a highly competitive application and admissions process. The school population represents a cross section of students from more than thirty resident districts throughout Monmouth County. BTHS provides students with an exceptional educational experience through a college preparatory curriculum emphasizing research, laboratory skills, critical thinking, problem solving, technology, leadership, and teamwork. BTHS is the only high school in New Jersey in which 100% of students are IB Diploma Candidates. Universities worldwide recognize IB as a rigorous high school program that provides excellent preparation for post-secondary success.

BTHS is a close-knit and supportive learning community of approximately 320 high-achieving students and 27 dynamic faculty members. The facilities and equipment at BTHS are state of the art, including two full biotechnology labs, a tissue culture lab and several 3D printers. The one-hour lunch/activity period allows students to be involved in a wide range of co-curricular activities, while also providing time to work individually with teachers, collaborate on group projects, and socialize with peers. BTHS employs a shared leadership model that involves all students in the management of the school community. Student clubs/organizations at BTHS include: Technology Student Association (TSA), DECA, and Junior State of America (JSA). BTHS does not offer sports, although many students participate in athletics at the high schools in their sending districts.

BTHS has an active Parent-Student-Faculty Association (PSFA) that provides the school with financial support for co-curricular programs, hospitality for community events, teacher grants, and student scholarships. BTHS also benefits from the involvement of its Advisory Board. The board includes members from both industry and higher education who work closely with staff on curriculum development, equipment selection, and in the procurement of grants and student internships.

## Curriculum

BTHS operates on an alternating day four period block schedule in which classes meet for 82 minutes two or three times per week. Courses are either full-year (5 credits) or semester-long (2.5 credits). All core and themed courses, not otherwise designated as AP or IB, are taught at an honors level. Beginning in grade 11, all students become IB Diploma Candidates. As IB Diploma Candidates, students are required to take seven IB courses, write a 4,000 word senior thesis, and complete 150 Creativity, Action, and Service (CAS) hours. To earn the IB diploma, students need to achieve superior scores on externally assessed exams, projects, and essays.

BTHS students complete 160 credit hours of instruction, including a minimum of 45 credit hours in laboratory sciences and mandatory coursework in leadership and ethics. Additionally, each student completes a science-based senior internship. Partner sites include Freehold EMS, Monmouth Medical Center, NJ Sharing Network, Robert Wood Johnson University Hospital and Rutgers University.

## Grading System & GPA

In accordance with MCVSD Board of Education policy, students are not ranked. The grade point average, computed at the end of each year, is unweighted and includes all courses. GPAs are based on a 100-point scale.

**Non-Discrimination Clause:** *The Monmouth County Vocational School District does not discriminate on the basis of race, creed, color, national origin, ancestry, nationality, marital or domestic partnership or civil union status, sex, pregnancy, gender identity or expression, affectional or sexual orientation, reprisal or retaliation for prior civil rights activity, religion, age, disability, or socioeconomic status.*

# "Excellence is in our DNA"

- Recognized by the US Department of Education as a National Blue Ribbon School in 2014
- Consistently ranked as a top 20 US high school by numerous publications (Business Insider, Newsweek, Niche, and The Daily Beast)
- 100% of faculty members are highly qualified; 19% hold a doctoral degree



<b>Highlights</b> <b>Class of 2017 (82 students)</b>	<b>Achievements</b> <b>2016-17 School Year</b>
<ul style="list-style-type: none"> <li>• 94% earned an IB Diploma</li> <li>• 83% pursuing a STEM-related major</li> <li>• 473 college acceptances</li> <li>• 11 National Merit Finalists, 34 Commended</li> <li>• 3 US Presidential Scholar Semifinalists</li> <li>• 29 Rutgers Presidential Scholars</li> <li>• \$23,010,022 institutional merit aid offered</li> </ul>	<ul style="list-style-type: none"> <li>• Delaware Valley Science Fair (8 winners)</li> <li>• FFA National Convention (11 medalists, 2 first place)</li> <li>• Governor's STEM Scholars (5)</li> <li>• Jersey Shore Science Fair (25 winners, 6 first place)</li> <li>• National TSA Conference (1 winner, 4 qualifying teams)</li> <li>• New Jersey Academy of Science (1 winner)</li> <li>• NJ Junior Science &amp; Humanities Symposium (4 finalists)</li> </ul>

## Summary of Test Results - Class of 2017

SAT/ACT Mean Score Comparison			
Test	BTHS	US	NJ
SAT	1474	1070	1076
ACT	32.4	21.0	23.9

IB Assessment Mean Scores		
Subject	BTHS	Worldwide
Biology	5.57	4.32
Chemistry	4.08	4.48
English	5.46	4.95
History	5.79	4.60
Math	5.78	4.37
Physics	4.63	4.65
Spanish	5.94	5.08

SAT Reasoning Score Summary		
Section	Mean	Mid 50%
Reading	731	680 - 760
Math	745	710 - 780
Total	1474	1390 - 1540

<b>Molecular Biology SAT II</b> BTHS Average Score – 757 National Average Score – 650	<b>IB Biology HL Exam</b> 52% of BTHS students scored a 6 or 7 (compared to 21% worldwide)	<b>Perfect SAT I Section Scores</b> 25 Total 6 Reading, 19 Math
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# College Matriculation 2009-2017

Albany College of Pharmacy  
 American University  
 Amherst College  
 Arcadia University  
 Australian National University  
 Bard College  
 Bentley University  
 Binghamton University  
 Boston College  
 Boston University  
 Brandeis University  
 Brookdale Community College  
 Brown University  
 Bryn Mawr College  
 Bucknell University  
 California Polytechnic State University  
 University of California, Berkeley  
 University of California, Los Angeles  
 University of California, San Diego  
 University of California, Santa Cruz  
 Carnegie Mellon University  
 Case Western Reserve University  
 College of Charleston  
 University of Chicago  
 Christopher Newport University  
 Clark University  
 Clemson University  
 Colgate University  
 Colorado State University  
 Columbia University  
 University of Connecticut  
 The Cooper Union  
 Cornell University  
 Dartmouth College  
 Delaware Valley College  
 University of Delaware  
 Denison University  
 Dickinson College  
 Drew University  
 Drexel University  
 Duke University  
 Elon University  
 Emerson College  
 Emory University  
 Fairleigh Dickinson University  
 Florida Institute of Technology  
 University of Florida  
 Fordham University  
 George Washington University  
 Georgetown University  
 Georgia Institute of Technology  
 The University of Georgia  
 Gettysburg College  
 Hamilton College  
 University of Hartford  
 Harvard University  
 Haverford College



University of Hawaii at Manoa  
 Indiana University  
 James Madison University  
 Johns Hopkins University  
 Kean University  
 University of Kentucky  
 Lafayette College  
 Lehigh University  
 Louisiana State University  
 University of Maine  
 Marist College  
 University of Mary Washington  
 University of Maryland, Baltimore County  
 University of Maryland, College Park  
 University of Massachusetts, Amherst  
 McGill University  
 Mercyhurst University  
 Messiah College  
 University of Miami  
 Monmouth University  
 Montclair State University  
 Muhlenberg College  
 University of New Hampshire  
 New Jersey Inst. of Technology  
 The College of New Jersey  
 New York Inst. of Technology  
 New York University  
 University of North Carolina at Chapel Hill  
 Northeastern University  
 Northwestern University  
 University of Notre Dame  
 Ohio Northern University  
 The Ohio State University  
 The University of Oklahoma  
 Pennsylvania State University  
 University of Pennsylvania  
 Pepperdine University  
 University of Pittsburgh  
 Point Park University  
 Pomona College



Pratt Institute  
 Princeton University  
 Michigan State University  
 University of Michigan  
 Purdue University  
 Quinnipiac University  
 Ramapo College  
 Reed College  
 Rensselaer Polytechnic Institute  
 University of Rhode Island  
 Rice University  
 Richard Stockton College  
 University of Richmond  
 Rochester Institute of Technology  
 University of Rochester  
 Rowan University  
 Rutgers University  
 Saint Louis University  
 Sarah Lawrence College  
 University of Sciences in Philadelphia  
 Seton Hall University  
 Skidmore College  
 University of South Carolina  
 University of Southern California  
 Stanford University  
 State University of New York  
 Stevens Institute of Technology  
 Stockton College  
 Stony Brook University  
 Swarthmore College  
 Syracuse University  
 Union College  
 Tulane University  
 US Air Force Academy  
 US Military Academy at West Point  
 University College London  
 Ursinus College  
 Vanderbilt University  
 Vassar College  
 University of Vermont  
 Villanova University  
 University of Virginia  
 Virginia Commonwealth University  
 Virginia Polytechnic Institute  
 Wagner College  
 University of Washington  
 Wesleyan University  
 West Chester University  
 Wheaton College  
 Widener University  
 College of William and Mary  
 Williams College  
 Worcester Polytechnic Institute  
 Yale University  
 Yeshiva University  
 York College of Pennsylvania  
 Youngstown State University