



**Karen B. Salmon, Ph.D.**  
State Superintendent of Schools

December 1, 2020

The Honorable Larry Hogan  
State House  
100 State Circle  
Annapolis, Maryland 21401

The Honorable Bill Ferguson  
Senate President  
State House, H107  
Annapolis, Maryland 21401

The Honorable Adrienne A. Jones  
Speaker of the House  
State House, H101  
Annapolis, Maryland 21401

RE: Pathways in Technology Early College High School (P-TECH) Annual Report (MSAR #11082)

Dear Governor Hogan, President Ferguson, and Speaker Jones:

The Maryland State Department of Education (MSDE) is required to annually report to the Governor and the General Assembly on the implementation of the Pathways in Technology Early College High (P-TECH) School program in the state. Attached please find the report required under the P-TECH Act of 2017.

The report includes performance and outcome data for the Maryland P-TECH sites that reported student enrollment for the 2019-2020 school year. The attached annual report also includes data on Fiscal Year (FY) 2020 state funds granted to local school systems and community colleges in support of P-TECH Planning grants and P-TECH Supplemental School and College grants.

Should you have any questions regarding this report, please contact Zachary Hands, Director, Education Policy and Government Relations, at [zachary.hands1@maryland.gov](mailto:zachary.hands1@maryland.gov) or (410)-767-0504.

Best Regards,

Karen B. Salmon, Ph.D.  
State Superintendent of Schools

KBS:TBD:nsr

Attachment



Pathways in Technology  
Early College High School

**Annual Report to the Governor and  
General Assembly  
November 2020**



Pathways in Technology Early College High School Act of 2017  
(Chapter 591, Acts of 2017)

**Maryland State Department of Education**



Karen B. Salmon, Ph.D.  
State Superintendent of Schools

Clarence C. Crawford  
President, Maryland State Board of Education

Larry Hogan  
Governor

*A full list of Maryland State Board of Education Members can be found on the [Maryland State Department of Education's website](#).*

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## Background and Introduction

Pathways in Technology Early College High (P-TECH) Schools are innovative early college programs that create clear pathways from high school to college and careers for students from all academic backgrounds. IBM created the P-TECH program in order to link education to economic development and illuminate a pathway from high school to college and career. In six years or less, students graduate with a high school diploma and a no-cost, two-year Associate of Applied Science (AAS) degree. Each P-TECH program requires a partnership among three entities: a local school system (LSS), a local institution of higher education, and a local employer. P-TECH schools work with industry partners and a local community college to ensure a curriculum that is academically rigorous economically relevant, and aligned to workforce needs. The program also includes one-on-one mentoring, workplace visits, skills instruction, paid summer internships, and first-in-line consideration for job openings with a school's partnering company.

P-TECH is in direct alignment with Maryland's vision for career and technical education (CTE). The vision for CTE in Maryland is for each student to have access and opportunity to engage in career programs of study that:

- ✓ align to high-skill, high-wage, and/or in-demand careers;
- ✓ lead to earning industry-recognized and/or postsecondary credentials that will allow entrance and/or advancement in a specific career cluster; and
- ✓ provide career-based learning experiences that require the application of academic and technical knowledge and skills in a work setting.

Most P-TECH students are enrolled in the following career clusters:

- Transportation Technologies
- Health and Biosciences
- Information Technology
- Manufacturing Engineering and Technology
- Consumer Services Hospitality and Tourism

In the 2019-2020 school year, the Maryland State Department of Education (MSDE), Division of Career and College Readiness continued to support the seven existing P-TECH sites and worked to expand P-TECH in Maryland by funding two new P-TECH sites. A listing of all P-TECH sites, the partners involved, the identified career pathways and highlights from the 2019-2020 school year are located in the Implementation Table on pages 5 – 10 of this report.

In October of 2019, the Division of Career and College Readiness hosted a statewide P-TECH conference. Over 70 educators, employers and government representatives convened for a day of learning effective implementation strategies that support the key design principles of P-TECH. Every P-TECH site in Maryland was represented at the conference.

With continued support from the Governor and the General Assembly, Maryland is building a strong statewide network of P-TECH stakeholders working together to prepare Maryland students for high-wage, in-demand career opportunities. This report includes performance data on Maryland's active P-TECH sites as well as information on the expected growth of P-TECH sites in Maryland.



## Implementation

In the 2019-2020 school year, five Maryland school systems offered seven P-TECH programs. Two school systems received fiscal year (FY) 2020 P-TECH Planning Grants to develop new P-TECH sites. For data on specific P-TECH program performance measures, refer to [Tables 1A](#), [1B](#) and [1C](#).

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
Allegany County Public Schools / Allegany College of Maryland	<ul style="list-style-type: none"> <li>Allegany High School</li> <li>Fort Hill High School</li> <li>Mountain Home High School,</li> <li>Allegany Career and Technology Center</li> </ul>	<ul style="list-style-type: none"> <li>Information Technology</li> <li>Cyber Security</li> </ul>	Freshmen, Sophomores and Juniors	<p>The first cohort of students who were 11<sup>th</sup> graders during the 2019-2020 school year attended the Center for Career &amp; Technical Education along with taking classes at Allegany College of Maryland. These students qualified at the regional Future Business Leaders of America (FBLA) competition to attend the state level competition by earning a 1st, 2nd, 3rd or 4th place in various areas related to computer problem solving, networking concepts, cyber security and network design and half of the students placed at the state level. Four of the students placed high enough to compete at the National level in Network Design and Computer Problem solving. This group of 11<sup>th</sup> graders also attended the Tech at the Gap Conference, which focused on Artificial Intelligence and Cyber Security. Sophomore and freshman students attended breakfast seminars with guest speakers from IBM, Frostburg State University, Allegany College of Maryland, Western Maryland Health System, Willetts Tech, First United Bank, Exclamation Labs, and Iron Mountain Cyber Security. Two students from the first cohort are on track to earn their Associate of Applied Science (AAS) degree and high school diploma by in Cyber Security in the 2020-2021 school year.</p>



ays in Technology Early College High (P-TECH) School Annual Report

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
Baltimore City Public Schools / Baltimore City Community College	Carver Vocational-Technical High School	<ul style="list-style-type: none"> <li>• Cyber Security Assurance</li> <li>• Computer Information Systems</li> </ul>	Freshmen, Sophomores, Juniors and Seniors	<p>Thirteen grade 12 students completed the associate degree at Baltimore City Community College in four years, with five of them graduating with honors from college.</p> <p>Twenty-five students graduated from high school.</p> <p>60% of P-TECH at Carver students were enrolled in at least one college course during the school year.</p> <p>Grade nine students participated in an after-school game development class to prepare them for the rigors of college.</p>
	Paul Laurence Dunbar High School	<ul style="list-style-type: none"> <li>• Nursing,</li> <li>• Respiratory Care</li> <li>• Physical Therapy Assistant</li> </ul>	Freshmen, Sophomores, Juniors, Seniors	<p>100% of the first Dunbar P-TECH Cohort earned their high school diploma. Over half of the P-TECH students who earned their high school diploma in 2020 are continuing in Baltimore City Community College to complete the Associate’s Degree.</p> <p>Forty-two percent of the P-TECH class of 2020 are continuing on to 4-year colleges. P-TECH students were special invited guests to the Kaiser Permanente Honors African-American Marylanders in Healthcare and Medicine luncheon at the Reginald C. Lewis Museum, and attended the national STEM CX Pre-College Experience in Washington DC. Upperclassmen participated in monthly workshops at the Johns Hopkins Outpatient Center where they learned career and job readiness skills from doctors, HR representatives and residents in the Johns Hopkins Department of Orthopedic Surgery. Post-COVID school closures, P-TECH mentors transitioned into providing one-on-one and group tutoring support to students needed help with their high school and college virtual learning. Workplace learning trainings and introductions to healthcare careers through P-TECH pathways were virtually offered through the University of Maryland School of Nursing, Johns Hopkins Sports Medicine and Kaiser Permanente. Internship-ready students participated in exclusive virtual internships hosted by the Johns Hopkins Department of Workforce Development.</p>
	New Era Academy	<ul style="list-style-type: none"> <li>• Transportation and Supply Chain</li> </ul>	Freshmen and Sophomores	<p>Seven New Era P-TECH students passed their first college courses- Preparation for Academic Achievement, Health Life</p>



ays in Technology Early College High (P-TECH) School Annual Report

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
		Management		<p>and Fitness, and Speech 1010 - with a C or better. 17 New Era P-TECH students passed all their high school class with a 2.5 or better.</p> <p>Grade 9 students participated in Summer Bridge Program that served as an introduction to the many aspects of high school and college including registering for courses and identifying high school resources.</p>
Baltimore County Public Schools / Community College of Baltimore County	Dundalk High School	<ul style="list-style-type: none"> <li>Engineering Technology</li> </ul>	Freshmen and Sophomores	<p>Dundalk High School P-TECH sophomores enrolled in their first college courses at the Community College of Baltimore County (CCBC) in the summer of 2019. These students attended a two-day orientation at CCBC to prepare them for the coming school year and were able to meet with their industry mentors for two face-to-face events.</p> <p>P-TECH freshmen started with their Summer Institute for a week in June of 2019. These students had the opportunity to participate in fieldtrips to the P-TECH industry partner worksites meet with their industry mentors. Students completed their P-TECH seminar course and PLTW Introduction to Engineering Design class in preparation for their first college classes in the fall.</p>





**ays in Technology Early College High (P-TECH) School Annual Report**

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
	Owings Mills High School	<ul style="list-style-type: none"> <li>• Design, Fabrication, and Advanced Manufacturing</li> </ul>		<p>The Owings Mills High P-TECH Steering Committee was formed and included members of Baltimore County Public Schools, Owings Mills High School, Community College of Baltimore County, and members from each of our business partners. We have continued to reach out to expand our list of business partners, beginning with Northrup Grumman, McCormick Inc., Potomac Photonics, and North American Millwright. To date we are in the process of adding 2 additional partners in Direct Dimensions and Strategic Factory. The Steering Committee identified the career pathways and corresponding Associate of Applied Science degrees that students will earn as part of the program. A scope and sequence laying out what high school and college courses students would need to take to earn the degree in 4, 5 or 6 years was developed. The Owings Mills P-TECH program enrolled 30 students in the fall of 2020. There is a wait list of other students interested in joining the program.</p>
Harford County Public School/Harford Community College	Joppatowne High School	<ul style="list-style-type: none"> <li>• Computer Information Systems</li> <li>• Cybersecurity</li> </ul>	Planning Year	<p>The Harford County P-TECH Steering Committee was formed and included members of Harford County Public Schools, Joppatowne High School, Harford Community College, and Communications Electronics Command of Aberdeen Proving Ground. The Steering Committee identified the career pathways and corresponding Associate of Applied Science degrees that students will earn as part of the program. A scope and sequence laying out what high school and college courses students would need to take to earn the degree in 4, 5 or 6 years was developed. The Joppatowne P-TECH program plans to enroll 30 students in the fall of 2020.</p>



ays in Technology Early College High (P-TECH) School Annual Report

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
Montgomery County Public Schools / Montgomery College	Clarksburg High School	<ul style="list-style-type: none"> <li>• Network and Information Technology</li> </ul>	Freshmen and Sophomores	<p>Clarksville High School P-TECH students in grades 9 and 10 participated in a Summer Bridge Program where they visited Montgomery College and participated in robotics, cabling, and programming activities. They visited DALY Computers for a tour, met with their industry mentors, and took a fieldtrip to the Smith Center for joint team building activities.</p> <p>During the school year, 25 students attended the Association of Old Crows STEM Convention in Washington, DC. Trade 10 students participated in several events with their mentors. 45 grade 10 students completed a music arts distribution college course with a C or better and 37 grade 10 students completed a computer networking college course with a C or better.</p>
Prince George's County Public Schools / Prince George's Community College	Frederick Douglass High School	<ul style="list-style-type: none"> <li>• Health Information Management</li> </ul>	Freshmen, Sophomores and Juniors	<p>Frederick Douglass High School P-TECH students in the Health Information Management and the Hospitality Services Management pathways, amidst the pandemic, completed the Spring 2020 college semester with a 93% pass rate, earning a C or higher.</p>
		<ul style="list-style-type: none"> <li>• Hospitality Services Management</li> </ul>	Freshmen, Sophomores and Juniors	<p>Health Information Management P-TECH students participated in the National Institutes of Health Community College Day. P-TECH scholars had the opportunity to network and learn about the various career paths in the biomedical and health care fields.</p> <p>During the 2019-2020 school year, P-TECH Year 3 scholars continued to tour colleges, such as Temple University, where students explored Health Information Management and Hospitality majors.</p> <p>For the second year in a row, a P-TECH student earned a scholarship to study at the Gordonstoun International Summer Institute in Scotland. Dependent upon traveling restrictions, the scholar will participate during Summer 2021.</p>



ays in Technology Early College High (P-TECH) School Annual Report

School System / Community College	School Site	Career Pathway	2019-2020 Cohorts	2019-2020 P-TECH Highlights
				<p>P-TECH hosted College Advisement and College Essay Writing Sessions for Year 3 &amp; Year 4 students in preparation for their senior year and the college application process.</p> <p>To welcome incoming students and to build relationships in a virtual environment, the P-TECH team held virtual individual welcome sessions with the student and parents, and student cafe sessions to foster student to student and P-TECH staff to student relationships.</p> <p>P-TECH continues to have an active mentoring program. Mentors who began with the first Frederick High School P-TECH cohort in 2017 are continuing to be a strong, consistent, and impactful force on our P-TECH scholars. The incoming freshman will participate in a Virtual Mentor-Mentee Match Ceremony in November.</p> <p>P-TECH held a 2-week virtual summer bridge experience for all four cohorts. Highlights from P-TECH Summer Bridge 2020 include academic skill building, character education, a virtual culinary demo, and P-TECH upperclassmen serving as student leaders and mentors to the incoming scholars.</p>



## Data Collection and Evaluation Methods

Maryland State Department of Education (MSDE) staff members from the Divisions of Career and College Readiness and Division of Assessment, Accountability, and Information Technology developed policies, processes, and tools to collect and analyze the required P-TECH data. Staff members met with P-TECH administrators and accountability teams in the local school systems to review P-TECH evaluation requirements outlined in the law and to review processes for collecting, reporting, and analyzing P-TECH data.

Performance measure data were submitted to MSDE for the P-TECH programs in Allegany County, Baltimore City, Baltimore County, Montgomery County and Prince George’s County. Not all data points included in the P-TECH Act of 2017 can be reported at this time because students have not matriculated through the program.

## Data and Information Tables

Table 1A: P-TECH Performance Measures for P-TECH programs with enrollment in the 2019-2020 school year

**Based on Student Enrollment for School Year 2019-2020**

P-TECH Reporting Requirements	Baltimore City Public Schools			Allegany County Public Schools	Prince George’s County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
	Carver	Dunbar	New Era Academy	Allegany, Fort Hill, Mountain Home, Allegany Career and Technology Center	Frederick Douglass - Health	Frederick Douglass - Hospitality	Dundalk	Clarksburg
The number of students enrolled in each P-TECH school	136	180	33	50	75	64	103	103
The rate of attrition, if any, from each P-TECH school by grade and cohort (9 <sup>th</sup> Grade)	7%	3%	11%	24%	4%	9%	18%	8%
The rate of attrition, if any, from each P-TECH school by grade and cohort (10 <sup>th</sup> Grade)	15%	0%	Not Applicable	0%	11%	0%	Not Applicable	Not Applicable
The rate of attrition, if any, from	0%	0%	0%	Not Applicable	Not	Not	Not Applicable	Not



ays in Technology Early College High (P-TECH) School Annual Report

P-TECH Reporting Requirements	Baltimore City Public Schools			Allegany County Public Schools	Prince George's County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
	Carver	Dunbar	New Era Academy	Allegany, Fort Hill, Mountain Home, Allegany Career and Technology Center	Frederick Douglass - Health	Frederick Douglass - Hospitality	Dundalk	Clarksburg
The number of students enrolled in each P-TECH school	136	180	33	50	75	64	103	103
each P-TECH school by grade and cohort (11 <sup>th</sup> Grade)					Applicable	Applicable		Applicable
The number of students at each P-TECH school who have an IEP plan	22	20	5	3	0	0	5	3
The number of students at each P-TECH school who have a 504 plan	0	0	0	1	2	4	7	2
The number of students at each P-TECH school who are English Language Learners	1	0	1	0	0	0	8	2
The percentage of P-TECH students who meet the free and reduced meal plan income criteria in each P-TECH school	51.5% (70)	42.2% (76)	45.5% (15)	44.0% (22)	26.7% (20)	32.8% (21)	59.2% (61)	27.2% (28)

Table 1B: P-TECH Performance Measures for P-TECH programs with enrollment in the 2019-2020 school year  
Based on Student Outcomes as of June 30, 2020



ays in Technology Early College High (P-TECH) School Annual Report

P-TECH Reporting Requirements	Baltimore City Public Schools			Allegany County Public Schools	Prince George's County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
	Carver	Dunbar	New Era Academy	Allegany, Fort Hill, Mountain Home, Allegany Career and Technology Center	Frederick Douglass - Health	Frederick Douglass - Hospitality	Dundalk	Clarksburg
The number of students enrolled in each P-TECH school	136	180	33	50	75	64	103	103
How P-TECH students performed on federal and state assessments (Pass Rate) - English language arts	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
How P-TECH students performed on federal and state assessments (Pass Rate) - Mathematics	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
How P-TECH students performed on federal and state assessments (Pass Rate) - MISA	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
The number of P-TECH students on track for high school 4 year graduation	102	168	30	50	74	63	76	101
The number of P-TECH students on track for a 4 year P-TECH completion (Associates Degree and high school diploma by year 4)	34	0	17	6	75	64	0	95
The number of P-TECH students on track for a 5 year P-TECH completion	34	0	13	31	0	0	49	3
The number of P-TECH students on track for a 6 year P-TECH completion	25	180	2	13	0	0	54	5



ays in Technology Early College High (P-TECH) School Annual Report

P-TECH Reporting Requirements	Baltimore City Public Schools			Allegany County Public Schools	Prince George's County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
	Carver	Dunbar	New Era Academy	Allegany, Fort Hill, Mountain Home, Allegany Career and Technology Center	Frederick Douglass - Health	Frederick Douglass - Hospitality	Dundalk	Clarksburg
Number of P-TECH student internship placements	1	19	0	0	0	0	0	0
Number of P-TECH student internship placements with an industry partner	0	19	0	0	0	0	0	0

Table 1C: P-TECH Performance Measures for P-TECH programs with enrollment in the 2019-2020 school year

Based on Student Outcomes as of June 30, 2020

P-TECH Reporting Requirements	Baltimore City Public Schools			Allegany County Public Schools	Prince George's County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
	Carver	Dunbar	New Era Academy	Allegany, Fort Hill, Mountain Home, Allegany Career and Technology Center	Frederick Douglass - Health	Frederick Douglass - Hospitality	Dundalk	Clarksburg
The number of students enrolled in each P-TECH school	136	180	33	50	75	64	103	103
High school 4 year graduation rate (diploma only)	92.6% 25 out of 27	100% 38 out of 38	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
P-TECH 4 year graduation rate (diploma and associate degree)	48.1% 13 out of 27	0%	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
P-TECH 5 year graduation rate	Not	Not	Not	Not Applicable	Not	Not	Not Applicable	Not Applicable



ays in Technology Early College High (P-TECH) School Annual Report

	Baltimore City Public Schools			Allegany County Public Schools	Prince George's County Public Schools		Baltimore County Public Schools	Montgomery County Public Schools
(diploma and associate degree)	Applicable	Applicable	Applicable		Applicable	Applicable		
P-TECH 6 year graduation rate (diploma and associate degree)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
P-TECH completers employed two quarters after graduation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
P-TECH completers employed with industry partner two quarters after graduation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
P-TECH completers enrolled in postsecondary education at a 4 year higher education institution two quarters after graduation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable



**Table 2A: Fiscal Year 2020 P-TECH Supplemental School Grants**

P-TECH supplemental school grants are annual grants from MSDE to local school systems with P-TECH programs.

- \$750 per student based on P-TECH Program Fall Enrollment Validation File submitted to MSDE by October 30<sup>th</sup> of each year.
- Local school system must match 100% of supplemental school grant funds.

<b>Grant Recipient</b>	<b>Site</b>	<b>Grant Award Amount</b>
Allegany County Public Schools	Allegany, Fort Hill, Mountain Home High Schools, and Allegany Career and Technology Center	\$42,750
Baltimore City Public Schools	New Era Academy, Carver Vocational-Technical and Paul Laurence Dunbar High Schools	\$108,750 \$145,500 \$29,250
Baltimore County Public Schools	Dundalk High School	\$87,750
Montgomery County Public Schools	Clarksburg High School	\$87,750
Prince George’s County Public Schools	Frederick Douglass High School	\$112,500

**Table 2B: Fiscal Year 2020 Local Funds Used to Support P-TECH**

Local Funds are defined as local monies spent in support of P-TECH outside of grant and matching funds and funds solely dedicated to P-TECH. Table 2B identifies the amount of local funds for each school system.

<b>School System</b>	<b>School Site</b>	<b>Amount of Local Funds</b>
Allegany County Public Schools	Allegany, Fort Hill, Mountain Home, and Allegany Career and Technology Center	None reported for FY 2020
Baltimore County Public Schools	Dundalk	\$27,283
Montgomery County Public Schools	Clarksburg	\$87,850
Prince George’s County Public Schools	Frederick Douglass - Hospitality	\$391,518
	Frederick Douglass - Health Information	\$391,518
Baltimore City Public Schools	Carver	\$746,147
	Dunbar	\$1,070,603
	New Era	\$144,944

Table 2C: FY 2020 P-TECH Supplemental College Grants

P-TECH Supplemental College grants are annual grants from MSDE to P-TECH College Partners.

- A P-TECH Supplemental College Grant is an amount equal to the tuition and mandatory fees that would normally be charged for the classes in which P-TECH students are enrolled.
- The state share of a P-TECH Supplemental College Grant shall be calculated and distributed by the state to college partners and equals:
  - 50% for counties that received a Disparity Grant in the prior fiscal year; or
  - 25% for counties that did not received a Disparity Grant in the prior fiscal year.
- If the funds distributed to the college from the state are not enough to cover the costs of tuition and fees, then the local share of a P-TECH Supplemental College grant shall be calculated and distributed by a county board, to college partners and equals the amount not paid by the state.

Grant Recipient	Grant Award Amount	Disparity Grant Recipient
Allegany College	\$16,046	Y
Baltimore City Community College	\$165,833	Y
Community College of Baltimore County	\$12,526	N
Montgomery College	\$13,718	N
Prince George's County Community College	\$120,978	Y



Table 2D: FY 2020 P-TECH Planning Grants

Table 4B outlines the school system and community college that were awarded \$100,000 P-TECH Planning Grants for fiscal year 2020.

School System / Community College	School	Industry Partners	Career Pathways	First Student Cohort
Baltimore County Public Schools / Community College of Baltimore County	Owings Mills High School	Becton Dickinson (BD)*, McCormick & Company*, North American Millwright*, Northrop Grumman*, Potomac Photonics*	Design, Fabrication, and Advanced Manufacturing	Fall 2020
Harford County Public Schools	Joppatowne High School	U.S. Army Communications-Electronics Command (CECOM) at Aberdeen Proving Ground*	Computer Information Systems and Information Assurance and Cybersecurity	Fall 2020

\*Lead Industry Partners

**Table 3: Industry Partners and Career Pathways Associated with Each P-TECH Program**

Industry partners collaborate with the community college and local school system to ensure curriculum that is academically rigorous, economically relevant, and meets workforce needs. Industry partners create a current skills map for the industry/sector that identifies essential job requirements and collaborate with the school system and community college to identify the associate degree program that will ensure students meet industry expectations.

Industry partners also provide one-on-one mentoring, workplace visits, instruction on the skills needed for the industry, paid internships, and first-in-line consideration for job openings with a school's partnering companies. Table 3 identifies industry partners for each P-TECH program.

School System / Community College	School	Industry Partners	Career Pathways
Allegany County Public Schools /Allegany College	Allegany Career and Technology Center	Western MD Health Systems*, Exclamation Labs, Willets Systems, Inc., First United Bank and Trust, IBM, Northrop Grumman	Information Technology Cyber Security
Baltimore City Public Schools / Baltimore City Community College	Paul Laurence Dunbar High School	Johns Hopkins Hospital*, Kaiser Permanente*, University of Maryland, Baltimore*	Nursing, Respiratory Care, Physical Therapy Assistant,
	Carver Vocational Technical High School	IBM*	Cyber Security Assurance and Computer Information Systems
	New Era Academy	Port of Baltimore*	Supply Chain Management
Baltimore County Public Schools / Community College of Baltimore County	Dundalk High School	Whiting-Turner Contracting*, KCI Technologies*, Black and Decker*, Carter CAT*	Engineering Technology
	Owings Mills High School	Becton Dickinson (BD)*, McCormick & Company*, North American Millwright*, Northrop Grumman*, Potomac Photonics*	Design, Fabrication, and Advanced Manufacturing
Harford County Public Schools/Harford Community College	Joppatowne High School	U.S. Army Communications-Electronics Command (CECOM) at Aberdeen Proving Ground*	Computer Information Systems and Information Assurance and Cybersecurity
Montgomery County Public Schools / Montgomery College	Clarksburg High School	Daly Computers, Inc.*, Information Technology Foundation*, Dataprise	Network and Information Technology
Prince George's County Public Schools / Prince George's Community College	Frederick Douglass High School	Continental Societies, Incorporated, Smart1 Management Solutions*,	Health Information Management



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School System / Community College	School	Industry Partners	Career Pathways
		MedStar*, Six Flags*, Employ Prince George’s, Prince George’s County Youth/Summer Youth Employment Program, Marriott, MGM National Harbor	Hospitality Services Management

\*Lead Industry Partners

Table 4: P-TECH Enrollment for 2020-2021 School Year Submitted as of September 30, 2020

Table 4A identifies the total P-TECH enrollment for the 2020-2021 school year for each school site disaggregated by class year (freshman, sophomore, etc.) Total P-TECH student enrollment for 2020-2021 is 1077 students.

School System / Community College	School Site	2020-2021 Enrollment
Allegany County Public Schools/ Allegany College of Maryland	Allegany Career and Technology Center	25 freshmen 19 sophomores 18 juniors 11 seniors
Baltimore City Public Schools / Baltimore City Community College	New Era Academy	46 freshmen 15 sophomores 16 juniors
	Carver Vocational-Technical High School	51 freshmen 46 sophomores 20 juniors 21 seniors 10 Year 5
	Paul Laurence Dunbar High School	61 freshmen 59 sophomores 27 juniors 29 seniors 21 Year 5
Baltimore County Public Schools/ Community College of Baltimore County	Dundalk High School	55 freshmen 58 sophomores 46 juniors
	Owings Mills High School	30 freshman
Harford County Public Schools/Harford Community College	Joppatowne High School	30 freshman



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School System / Community College	School Site	2020-2021 Enrollment
Montgomery County Public Schools/ Montgomery College	Clarksburg High School	61 freshmen 56 sophomores 46 Juniors
Prince George’s County Public Schools/Prince George’s Community College	Frederick Douglass High School	<i>Hospitality Pathway</i> 33 freshmen 28 sophomores 21 juniors 33 Seniors  <i>Health Information Technology Pathway</i> 26 freshmen 18 sophomores 19 juniors 22 Seniors