P-TECH Schools Report

Pathways to Technology Early College (P-TECH) High School

December 1, 2025

Maryland
STATE DEPARTMENT OF EDUCATION

MARYLAND STATE DEPARTMENT OF EDUCATION

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State Superintendent of Schools

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State Superintendent of Schools

December 1, 2025

The Honorable Wes Moore
Governor
100 State Circle
Annapolis, Maryland 21401

The Honorable Bill Ferguson
President
Senate of Maryland
State House, H-107
Annapolis, Maryland 21401

The Honorable Adrienne A. Jones
Speaker of the House
State House, H-101
Annapolis, Maryland 21401

Re: 2024-2025 P-TECH School Report - ED § 7-1806(a)

Dear Governor Moore, President Ferguson, and Speaker Jones:

The Pathways in Technology Early College High (P-TECH) School Act of 2017 is enacted by Section ED § 7-1806(a) of the Education Article of the Annotated Code of Maryland. This legislation requires that the Maryland State Department of Education (MSDE) report annually to the Governor and General Assembly on the implementation of the Pathways in Technology Early College High (P-TECH) programs. Reporting requirements, as defined by the P-TECH School Act of 2017, are:

- Number of students enrolled in each P-TECH school;
- Industry partners associated with each P-TECH school;
- Pathway Sequence created for each P-TECH school;
- How P-TECH students performed on federal and state assessments;
- Number of P-TECH students graduating from each P-TECH school and receiving a high school diploma and an associate degree;
- The year in which each P-TECH student graduated and received the degree;
- Number of P-TECH students in each P-TECH school who receive paid internships with each industry partner;
- Number of P-TECH students in each P-TECH local education agency (LEA) school on track for on-time completion of the pathway sequence;
- The rate of attrition, if any, from each P-TECH school by grade and by cohort;
- Number of students at each P-TECH school who have an individualized education plan (IEP), have a 504 plan, or are English language learners;

- Percentage of P-TECH students who meet the free and reduced meal plan income criteria in each P-TECH school;
- Number of P-TECH students in each P-TECH school who, by the 4th year of the pathway sequence, complete the requirements for a high school diploma;
- Number of P-TECH students in each P-TECH school who are employed after completion of the pathway sequence with each industry partner or who matriculate to a public or private senior higher education institution after finishing the pathway sequence;
- Base and supplemental costs of operating a P-TECH school;
- Total amount of funds distributed to each P-TECH school;
- An accounting of each P-TECH school's expenditures; and
- Whether all funds distributed were spent.

If you have questions or need additional information, please contact Laurel Cratsley, Interim Executive Director, Government Affairs, Educational Policy, and External Relations by email at laurel.cratsley@maryland.gov or by phone at 41 0-767-0504.

Sincerely,

Carey M. Wright, Ed.D.
State Superintendent of Schools

Encl. 2024-2025 Pathways in Technology Early College High School Legislative Report – ED § 7-1806(a)

c: Sarah T. Albert, Mandated Reports Specialist, Department of Legislative Services (five copies)

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Maryland Pathways in Technology Early College High Schools Overview

Pathways in Technology Early College High (P-TECH) Schools were developed by IBM to create clear pathways from high school to college and careers for students. 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 an LEA, a local institution of higher education, and a local employer. P-TECH school system staff collaborate with the Maryland State Department of Education (MSDE), industry partners, and a local community college to implement an academically rigorous and economically relevant curriculum aligned to workforce needs. The program includes one-on-one mentoring, workplace visits, skills instruction, paid summer internships, and first-in-line consideration for job openings with the school's partnering company.

Currently, P-TECH is implemented in nine high schools in six local education agencies (LEAs). With continued support from the Governor and 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. Table 1 identifies the LEA, community college, school, career pathway, and industry partner for each P-TECH school.

Table 1: P-TECH LEAs, Community Colleges, Career Pathways, and Industry Partners

LEA / Community College	School	Career Pathways	Industry Partner(s)
Allegany County Public Schools / Allegany College of Maryland	*Center for Career and Technical Education*	Information Technology *Cybersecurity*	Western MD Health Systems Provision IAM Willets Systems, Inc. First United Bank and Trust *Northrop Grumman*
Baltimore City Public Schools / Baltimore City Community College	Carver Vocational-Technical High School *Digital Harbor High School* Paul Laurence Dunbar High School	Cybersecurity Assurance Computer Information Systems *Supply Chain Management* Nursing Respiratory Care Physical Therapy Assistant Health and Information Technology General Science	IBM *No industry partner* Johns Hopkins Hospital* University of Maryland, Baltimore*

LEA / Community College	School	Career Pathways	Industry Partner(s)
Baltimore County Public Schools / Community College of Baltimore County	Dundalk High School	Engineering Technology	Whiting-Turner Contracting KCI Technologies RK & K
	Owings Mills High School	Design, Fabrication, and Advanced Manufacturing	Becton Dickinson Direct Dimensions Integra Life Sciences McCormick & Company Potomac Photonics Strategic Factory
Harford County Public Schools / Harford Community College	Joppatowne High School	Computer Information Systems Cybersecurity	U.S. Army Communications-Electronics Command (CECOM) at Aberdeen Proving Ground
Montgomery County Public Schools / Montgomery College	Clarksburg High School	Network and Information Technology	Daly Computers, Inc. Information Technology Foundation
Prince George's County Public Schools / Prince George's Community College	Frederick Douglass High School	Health Information Management Hospitality Services Management	MedStar (Southern Maryland Hospital Center) Six Flags

** Industry partners were not confirmed by the LEA for the 2025-2026 school year.*

P-TECH Enrollment, Attrition, and Completion Data

MSDE is required to report annually to the Governor and General Assembly on P-TECH implementation as defined in the P-TECH Act of 2017. This report contains data on the progress and outcomes of the P-TECH programs in Maryland.

P-TECH ENROLLMENT

MSDE is required to report annually to the Governor and General Assembly on P-TECH implementation as defined in the P-TECH Act of 2017. This report contains data on the progress and outcomes of the P-TECH programs in Maryland. Table 2 identifies the LEA, school, and enrollment for the 2025-2026 school year. Most P-TECH students enter the program in grade nine and matriculate through the program based on successful completion of college courses. LEAs submit P-TECH enrollment data to the MSDE P-TECH Fall Enrollment Validation File by the end of October each year.

The Pathways in Technology Early College High School Act of 2017 only requires the collection of student enrollment in a LEA, which is displayed in Table 2. Community colleges submit student enrollment by course to MSDE. This is because the amount of P-TECH Supplemental College Grants awarded to community colleges are determined by the number of courses that students enroll in and not the total number of P-TECH students enrolled in college. P-TECH students take multiple postsecondary courses each year. An aggregate enrollment count of P-TECH students in community colleges would not be sufficient to determine the amount of funds required to cover per-credit tuition costs and fees.

Table 2: P-TECH Enrollment

Local Education Agency	School	2025-2026 Enrollment		
		Grade or Year	Enrollment by Grade	Total Enrollment
Allegany County	Center for Career and Technical Education	Grade 9	13	57
		Grade 10	15	
		Grade 11	11	
		Grade 12	*	
		Year 5	*	
		Year 6	*	

Local Education Agency	School	2025-2026 Enrollment		
		Grade or Year	Enrollment by Grade	Total Enrollment
Baltimore City	Carver Vocational-Technical High School	Grade 9	20	97
		Grade 10	16	
		Grade 11	21	
		Grade 12	17	
		Year 5	14	
		Year 6	*	
	Digital Harbor High School	Grade 9	31	74
		Grade 10	15	
		Grade 11	16	
		Grade 12	12	
		Year 5	N/A	
		Year 6	N/A	
	Paul Laurence Dunbar High School	Grade 9	N/A	76
		Grade 10	*	
		Grade 11	38	
		Grade 12	36	
		Year 5	*	
		Year 6	N/A	
Baltimore County	Dundalk High School	Grade 9	45	182
		Grade 10	47	
		Grade 11	38	

Local Education Agency	School	2025-2026 Enrollment		
		Grade or Year	Enrollment by Grade	Total Enrollment
Harford County	Owings Mills High School	Grade 12	30	117
		Year 5	15	
		Year 6	*	
		Grade 9	33	
		Grade 10	22	
		Grade 11	30	
		Grade 12	25	
		Year 5	*	
		Year 6	N/A	
	Joppatowne High School	Grade 9	32	122
		Grade 10	33	
		Grade 11	22	
		Grade 12	25	
		Year 5	*	
		Year 6	*	
Montgomery County	Clarksburg High School	Grade 9	64	177
		Grade 10	46	
		Grade 11	33	
		Grade 12	34	
		Year 5	N/A	
		Year 6	N/A	
		Grade 9	56	198

Local Education Agency	School	2025-2026 Enrollment		
		Grade or Year	Enrollment by Grade	Total Enrollment
Prince George's County	Frederick Douglass High School	Grade 10	54	
		Grade 11	43	
		Grade 12	45	
		Year 5	N/A	
		Year 6	N/A	

** Data are suppressed with an asterisk (*) when the number of students in the group is less than 10.*
N/A- No students were enrolled in this grade level during the 2025-2026 school year.

P-TECH Attrition

ED § 7-1806(a) requires MSDE to report the attrition rate from each P-TECH school by grade and cohort. Attrition is the number of students who exit P-TECH pathways before earning their associate degree. LEAs submit attrition data through the MSDE P-TECH Outcome File in October of each year. Table 3 identifies Fall 2025 P-TECH attrition rates by grade.

Table 3: P-TECH Attrition for the Fall 2025 School Year

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	Carver	Digital Harbor	Dunbar	Dundalk	Owings Mills	Joppatowne	Clarksburg	Frederick Douglass
Total Number of students Enrolled in Each P-TECH School	57	97	74	76	182	117	122	177	198
Grade 9 Attrition Rate	*11.8%*	*55.6%*	*31.8%*	*N/A*	*7.8%*	*24.1%*	*8.3%*	*30.3%*	**<=5%*
Grade 10 Attrition Rate	38.9%	43.2%	11.1%	9.5%	20.8%	-7.1%	21.4%	34.0%	10.4%
Grade 11 Attrition Rate	*N/A*	*32.0%*	*14.3%*	*10.0%*	**-<=5%*	**<=5%*	*7.4%*	*12.8%*	**<=5%*

* Data are suppressed when the number of students tested is less than 10 and/or proficiency levels are less than or equal to 5% or greater than or equal to 95%.
N/A- This school did not enroll any 9th-grade P-TECH students in Fall 2024.

P-TECH Completion Data

ED § 7-1806(a) requires MSDE to report the total number of students who have graduated from the program and the percentage of completion rates. Table 4 identifies P-TECH completion data for the 2024-2025 school year. During the 2024-2025 school year, Owings Mills High School in Baltimore County and Joppatowne High School in Harford County did not have 6th-year students. As a result, no enrollment data is reported on 6th-year students for Owings Mills and Joppatowne for the 2024-2025 school year.

Table 4: P-TECH Completion Data for the 2024-2025 School Year

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	Carver	Digital Harbor	Dunbar	Dundalk	Owings Mills	Joppatowne	Clarksburg	Frederick Douglass
Total Number of students Enrolled in Each P-TECH School at end of school year	59	125	64	111	219	133	111	139	207
High School 4-year Graduation Rate: Diploma Only	*11*	*42*	*15*	*21*	*42*	*51*	*19*	*	*
Number of P-TECH students on track for P-TECH completion (associate degree and high school diploma) in 4 years	21	45	N/A	70	31	10	56	129	196
Number of P-TECH students on track for a P-TECH completion in 5 years	*24*	*57*	*15*	*35*	*46*	*42*	*21*	*	*
Number of P-TECH students on track for P-TECH completion in 6 years	13	91	51	*	73	13	31	*	N/A
Number of P-TECH student internships	*21*	*24*	*N/A*	*108*	*32*	*11*	*N/A*	*47*	*80*
Number of P-TECH students in each school who receive paid internships	21	*	N/A	108	32	11	N/A	41	75
Number of Post-graduates Employed	*	*N/A*	*N/A*	*N/A*	*N/A*	*	*	*	*
Number of Post-graduates Employed by Industry Partner	*	N/A	N/A	N/A	*	*	N/A	N/A	N/A
Number of post-graduates enrolled in 4-year institution of higher education	*	*N/A*	*N/A*	*16*	*	*11*	*13*	*24*	*50*

**Data are suppressed with an asterisk (*) when the number of students in the group is less than 10.*

[1] Students continued to years 5 and 6, therefore, there were no graduates for this P-TECH site during the 2024-2025 school year.

P-TECH Performance and Support Services

ED § 7-1806(a) requires MSDE to report student performance on federal and state assessments. The Every Student Succeeds Act (ESSA) requires that states administer annual statewide assessments to all students in English Language Arts/Literacy and Mathematics in grades 3-8 and once in high school, as well as in science once in each grade span (3-5, 6-8 and high school), and annual English language proficiency assessments in grades K-12 for all English learners. In addition to these federally mandated assessments, Maryland State law (Md. Ed. Art §7-203) requires a social studies assessment once in the middle school grade band (which will be administered in Grade 8) and the High School Assessment in American Government.

Maryland administers all required state assessments as part of the Maryland Comprehensive Assessment Program (MCAP). Table 5 identifies how P-TECH students performed on federal and state assessments for the 2024-2025 academic year. Table 6 identifies the number of students at each P-TECH school who have an IEP plan, 504 plan or are English language learners for the 2024-2025 academic year, as well as the percentage of P-TECH students who meet the free and reduced meal plan income criteria in each P-TECH school.

Table 5: Student Performance of Federal and State Assessments for the 2024-2025 School Year

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	*Carver*	*Digital Harbor*	*Dunbar*	*Dundalk*	*Owings Mills*	*Joppatowne*	*Clarksburg*	*Frederick Douglass*
Number of Students who took English Language Arts Assessment	23	43	29	33	97	50	63	76	101
How P-TECH students performed on federal and state assessments (Percent Proficient)- English Language Arts	*74%*	30%	41%	58%	31%	24%	59%	67%	78%
Number of students who took Mathematics Assessment	34	53	33	28	101	61	99	51	83
How P-TECH students performed on federal and state assessments (Percent Proficient)- Mathematics	*47%*	*<=5%	*<=5%	14%	*<=5%	*<=5%	7%	18%	12%
Number of students who took High School Life Science Assessment	11	42	15	*	59	31	35	45	56

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	Carver	Digital Harbor	Dunbar	Dundalk	Owings Mills	Joppatowne	Clarksburg	Frederick Douglass
How P-TECH students performed on federal and state assessments (Percent Proficient)- High School Life Science	55%	9%	*<=5%	*<=5%	27%	39%	34%	64%	61%
Number of students who took (American Government) Assessment	11	32	13	42	*	19	N/A	*	48
How P-TECH students performed on federal and state assessments (Percent Proficient)- American Government	73%	25%	*<=5%	69%	*<=5%	21%	N/A	*>=95%	75%

* Data are suppressed when the number of students tested is less than 10 and/or proficiency levels are less than or equal to 5% or greater than or equal to 95%.
N/A- No P-TECH students took this assessment during SY 2024-2025.

Table 6: Number of students at each P-TECH school who have an IEP Plan, 504 Plan, or are English Language Learners for the 2024-2025 School Year

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	Carver	Digital Harbor	Dunbar	Dundalk	Owings Mills	Joppatowne	Clarksburg	Frederick Douglass
Total Number of Students Enrolled in each P-TECH School	59	125	64	111	219	133	111	139	207
Number of P-TECH students who have an IEP plan	*	26	12	*	12	12	*	12	*
Number of P-TECH students who have a 504 Plan	*	*	*	*	13	11	*	*	*

P-TECH Reporting Requirements	Allegany County	Baltimore City			Baltimore County		Harford County	Montgomery County	Prince George's
	Center for CTE	Carver	Digital Harbor	Dunbar	Dundalk	Owings Mills	Joppatowne	Clarksburg	Frederick Douglass
Number of P-TECH students who are English Language Learners	*N/A*	*	*	*	26	*	N/A	*	N/A
Percentage of P-TECH students who meet the Free and Reduced Meal Plan Income criteria	41%	79%	81%	69%	64%	63%	41%	22%	26%

*Data are suppressed when the number of students in the group is less than 10 and/or the group percentage is less than or equal to 5% or greater than or equal to 95%.

P-TECH Funding

ED § 7-1806(a) require MSDE to report the total amount of funds distributed to each P-TECH school, an accounting of each P-TECH school's expenditures, whether all funds distributed were spent, and the base and supplemental costs of operating a P-TECH school. P-TECH supplemental school grants are provided annually from MSDE to LEAs with P-TECH programs. LEAs are awarded $750 per student based on data submitted in the October P-TECH Fall Validation Enrollment File. LEAs must match 100% of supplemental school grant funds. MSDE awards P-TECH supplemental college grants to IHEs. The supplemental college grant equals a percentage of tuition and mandatory fees for courses enrolled by P-TECH students, who often enroll in multiple college courses.

- Table 7 identifies the disbursed P-TECH supplemental school and college grants, and the percentage of funds spent during the 2024-2025 academic year.
- Table 8 identifies the total costs per student, including locally matched funds for the 2024-2025 academic year.

Table 7: School Year 2024-2025 P-TECH Supplemental School and College Grants

P-TECH District	High School/Community College	Enrollment	Supplemental Grant Award	Total Expenditures	Percentage of Funds Spent
Allegany County	Center for Career and Technical Education	69	$51,750	$46,689	90%
	Allegany College of Maryland	--	$52,320	$52,320	100%
	Total		**$104,070**		**95%**
Baltimore City	Carver Vocational-Technical High School	122	$91,500	$77,518	85%
	Digital Harbor High School	72	$54,000	$53,907	100%
	Paul Laurence Dunbar High School	111	$83,250	$90,879	109%
	Baltimore City Community College	--	$117,781	$0	0%
	Total		**$346,531**		**74%**
Baltimore County	Dundalk High School	174	$130,500	$96,708	74%
	Owings Mills High School	121	$90,750	$55.645	61%

P-TECH District	High School/Community College	Enrollment	Supplemental Grant Award	Total Expenditures	Percentage of Funds Spent
	Community College of Baltimore County	--	$48,655	$30,841	63%
	Total		**$269,905**		**66%**
Harford County	Joppatowne High School	116	$87,000	$90,000	103%
	Harford Community College	--	$44,376	$22,243	50%
	Total		$131,376		77%
Montgomery County	Clarksburg High School	182	$136,500	$135,000	99%
	Montgomery College	--	$81,404	$0	0%
	Total		**$217,904**		**50%**
Prince George's County	Frederick Douglass High School	207	$155,250	$0	0%
	Prince George's Community College	--	$291748	$0	0%
	Total		**$446,998**		**0%**
Statewide P-TECH Enrollment and Supplemental Grants		**1,174**	**$1,516,784**		**60%**

Table 8: School Year 2024-2025 P-TECH Base Costs per Student

P-TECH District	FY 2024 Student Enrollment	Supplemental School Grants	LEA Local Funding Match	Supplemental College Grants	Total Cost Per Student (includes local and state funds)
Allegany County	69	$51,750	$51,750	$52,320	$2,258
Baltimore City	305	$228,750	$228,750	$117,781	$1,886
Baltimore County	295	$221,250	$221,250	$48,655	$1,665
Harford County	116	$87,000	$87,000	$44,376	$1,883

P-TECH District	FY 2024 Student Enrollment	Supplemental School Grants	LEA Local Funding Match	Supplemental College Grants	Total Cost Per Student (includes local and state funds)
Montgomery County	182	$136,500	$136,500	$81,404	$1,947
Prince George's County	207	$155,250	$155,250	$291,748	$2,909
Statewide	**1,174**	**$880,500**	**$880,500**	**$636,284**	**$2,042**