

P-TECH

The Pathway from Classroom to Career to a Stronger Economy

October 2021

What is P-TECH?

- Pioneering high school model created by IBM, to prepare young people with the academic, technical, and professional skills and credentials for competitive STEM jobs and ongoing education
- Six-year program, featuring integrated high school and college coursework
- Students earn a high school diploma, a no-cost industry-aligned Associates degree, and gain relevant experience in a growing field



P-TECH Partnership

K-12

P-TECH schools are public schools, governed and supported by the local school district

Higher Ed

Community colleges work closely with districts and employers to align and strengthen the relationship between school and work

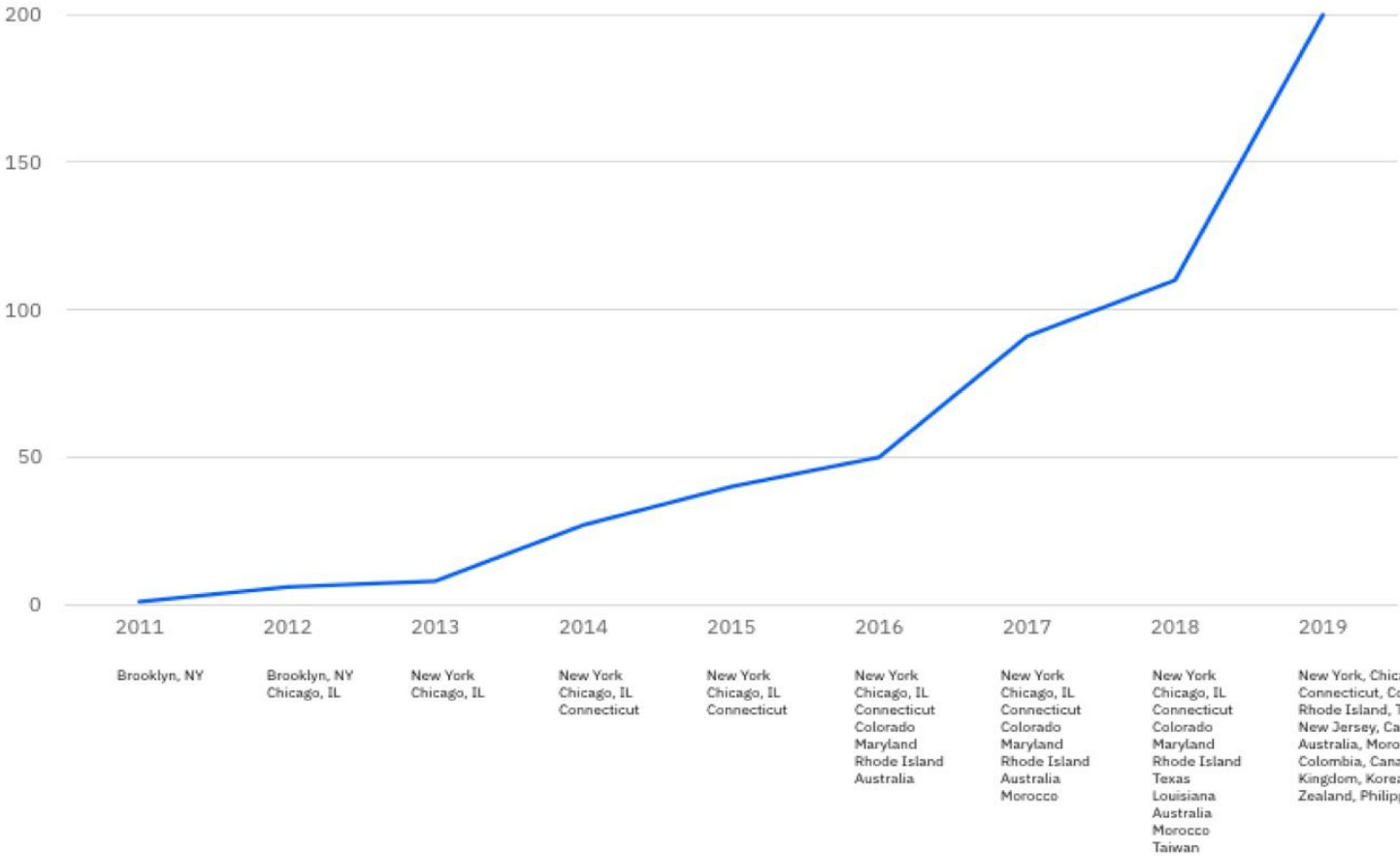
Industry

Industry partner(s) represent a high-growth industry and brings their insight into the skills and qualities they seek in prospective employees

Key Attributes

- **Cost free** postsecondary degree.
- Open enrollment with **focus on historically underserved students**.
- **Workplace learning** strand including mentorships, worksite visits, speakers, project days, skills-based and paid internships.
- **First-in-line for jobs** with industry partners.

P-TECH Growth



240+ School Partners



209 College Partners



28 Countries
10 US States



600 Industry Partners



93,000 US Students

Student Outcomes

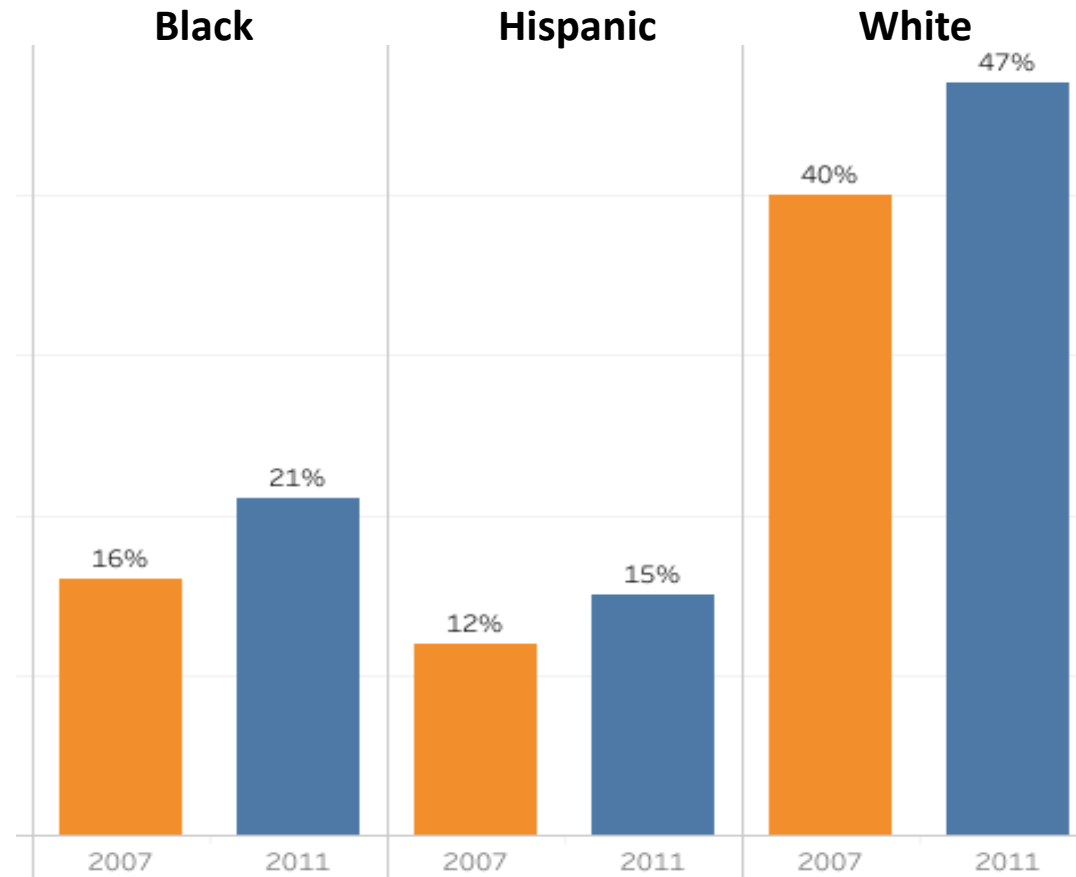
- While still early in the P-TECH pipeline, 339 graduates to date have graduated with both High School Diploma and AAS between 3.5–6 years
- First cohort of students graduated at 4x the on-time national community college graduation rate, 5x for low-income students
- IBM has provided 500 paid internships to students as of January 2020

WHY P-TECH for MA

- Educational equity
- Improved student opportunity/outcomes
- Diversity in tech, life science and other industry sectors
- Economic growth
- Building off existing Early College success and state's commitment

WHY P-TECH for MA: The equity imperative

Black and Hispanic students are earning post-secondary degrees at half the rate of white students. And the gap is widening.



Source: MA Department of Elementary & Secondary Education

Why P-TECH for MA: Student Need

- Just 45% of MA 9th graders go on to earn a postsecondary degree or credential
- Just 15% of low-income students complete a postsecondary degree within 6 years
- More than 3,500 students on wait lists for vocational technical schools, many in Gateway cities

Why P-TECH for MA: Workforce Pipeline

- Between 2018 and 2028, one out of every three jobs created in MA will be in STEM fields
- Demand for graduates in computing and mathematical occupations far outstrips supply
- 143,000 MA tech workers are expected to retire by 2027
- Life sciences industry forecasting significant growth; report needing to address skills gap to meet demand
- Leading sectors lack diversity
- Nearly half of all jobs in MA are middle-skill occupations