NEW JERSEY Career Technical Education (CTE) Profile

Career and Technical Education
At the secondary level, CTE is delivered through comprehensive high schools and county vocational-technical schools. At the postsecondary level, CTE is delivered through the state’s community colleges.\(^1\)

In FY 2015, 42\% of secondary and 45\% of postsecondary students enrolled in CTE were economically disadvantaged.\(^2\)

Career Clusters
Seven of the 16 career clusters in CTE lead to high-skill, high-wage, and high-demand STEM-related careers. These clusters include Agriculture, Architecture, Health, Information Technology, Manufacturing, STEM, and Transportation, Distribution, and Logistics and contain programs that prepare students for nontraditional careers.

![Secondary CTE Participators, FY 2015](chart1.png)

![Postsecondary CTE Participators, FY 2015](chart2.png)

![Secondary Enrollment, FY 2015](chart3.png)

![Postsecondary Enrollment, FY 2015](chart4.png)
Middle-Skill and STEM Jobs
The pipeline to middle-skill and STEM jobs loses young people at every level of the education system. Thus, the supply of sufficiently trained workers will not meet the demand of key industries.

Fast Facts
From 2014 to 2024…
- Computing jobs will grow by 13%.
- Engineering jobs will grow by 8%.
- Advanced manufacturing jobs will grow by 7%.
- Of all job openings, 50% will require training at the middle skill-level.

Yet…
- 17% of students who enter an associate’s degree program graduate.
- 66% of students who enter a bachelor’s degree program graduate.
- 37% of workers are trained to the middle-skill level.

2016 AP Test Taking and Passing
Students pursuing careers in STEM, particularly computer science and engineering, must become academically prepared early in their educational trajectory.

For New Jersey, in 2016, college-bound female students earned an average math SAT score of 501, compared to 529 for male students.

State CTE Contact
Marie Barry, Assistant Division Director, Office of Career Readiness, NJ Department of Education, PO Box 500, Trenton, NJ 08625, (609) 633-0665, marie.barry@doe.state.nj.us

Data Sources (retrieved April 2017)
1 https://www.acteonline.org/stateprofiles/
2 https://perkins.ed.gov/pims/DataExplorer/CTEParticipant
3 https://perkins.ed.gov/pims/DataExplorer/CTEConcentrator (race not available for clusters)
4 http://vitalsigns.changetheequation.org/
5 http://www.nationalskillscoalition.org/state-policy/fact-sheets
8 https://reports.collegeboard.org/sat-suite-program-results/class-of-2016-results/state-reports