RHODE ISLAND
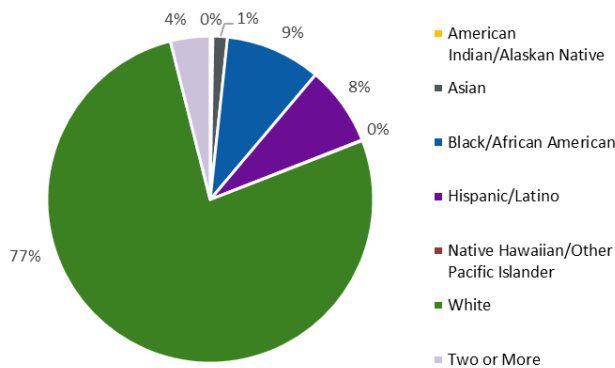## Career Technical Education (CTE) Profile

NAPE
National Alliance for
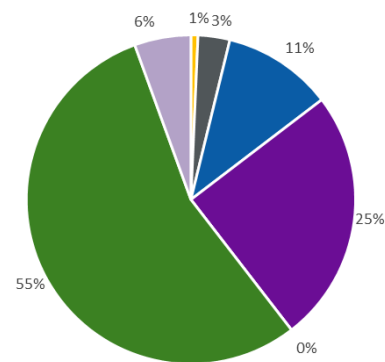Partnerships in Equity
Education Foundation

Career and Technical Education

At the secondary level, CTE is delivered through comprehensive high schools and regional career and technical centers. At the postsecondary level, CTE is delivered by the four campuses of the Community College of Rhode Island (CCRI).[1]

Secondary CTE Participators, FY 2015[2]

- 77% White
- 9% Black/African American
- 8% Hispanic/Latino
- 0%
- 4% Two or More
- 0%
- 1% Asian

Legend:
- American Indian/Alaskan Native
- Asian
- Black/African American
- Hispanic/Latino
- Native Hawaiian/Other Pacific Islander
- White
- Two or More

Postsecondary CTE Participators, FY 2015[2]

- 55% White
- 11% Black/African American
- 25% Hispanic/Latino
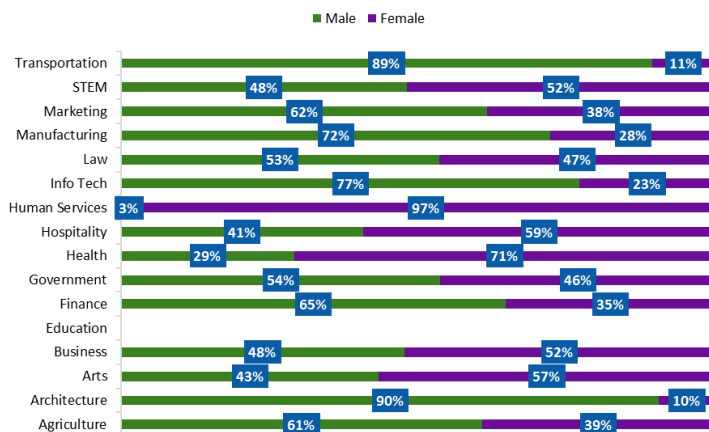- 0%
- 6% Two or More
- 1%
- 3% Asian

In FY 2015, **33%** of secondary and **44%** of postsecondary students enrolled in CTE were economically disadvantaged.[2]
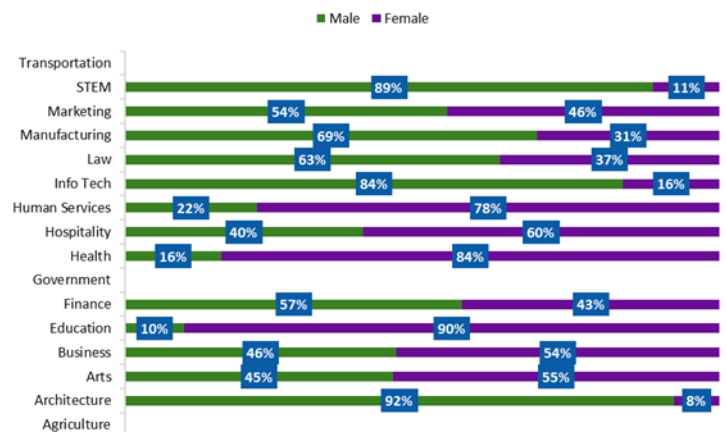
Career Clusters

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 Enrollment, FY 2015[3]

Male | Female

Cluster	Male	Female
Transportation	89%	11%
STEM	48%	52%
Marketing	62%	38%
Manufacturing	72%	28%
Law	53%	47%
Info Tech	77%	23%
Human Services	3%	97%
Hospitality	41%	59%
Health	29%	71%
Government	54%	46%
Finance	65%	35%
Education		
Business	48%	52%
Arts	43%	57%
Architecture	90%	10%
Agriculture	61%	39%

Postsecondary Enrollment, FY 2015[3]

Male | Female

Cluster	Male	Female
Transportation		
STEM	89%	11%
Marketing	54%	46%
Manufacturing	69%	31%
Law	63%	37%
Info Tech	84%	16%
Human Services	22%	78%
Hospitality	40%	60%
Health	16%	84%
Government		
Finance	57%	43%
Education	10%	90%
Business	46%	54%
Arts	45%	55%
Architecture	92%	8%
Agriculture		

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.
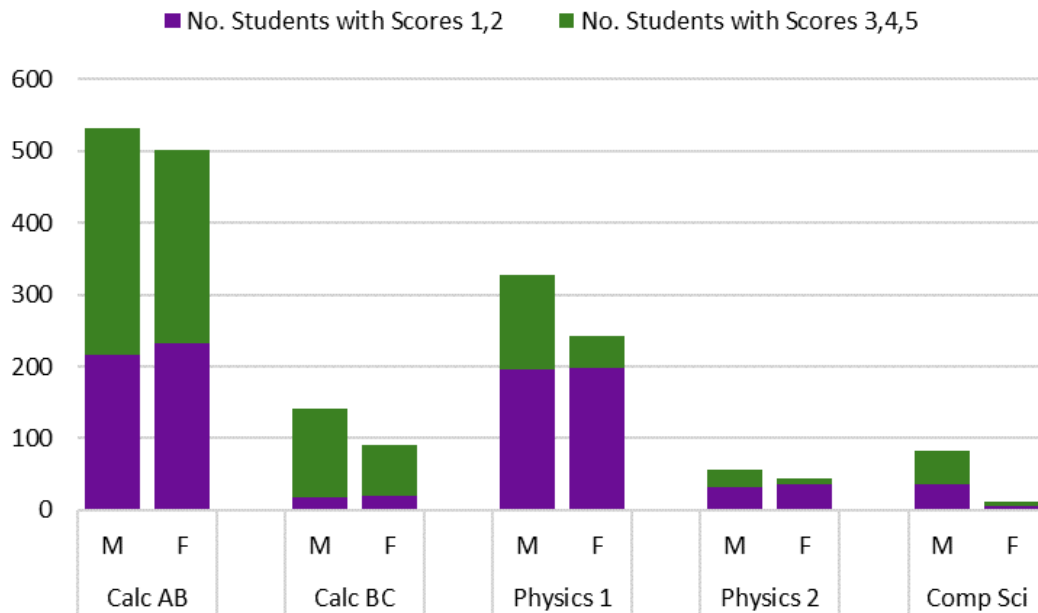
Fast Facts

From 2014 to 2024…

- Computing jobs will grow by **19%**.[4]
- Engineering jobs will grow by **9%**.[4]
- Advanced manufacturing jobs will grow by **5%**.[4]
- Of all job openings, **41%** will require training at the middle skill-level.[5]

Yet…

- **13%** of students who enter an associate's degree program graduate.[4]
- **68%** of students who enter a bachelor's degree program graduate.[4]
- **47%** of workers are trained to the middle-skill level.[5]

2016 AP Test Taking and Passing[6]

Students pursuing careers in STEM, particularly computer science and engineering, must become academically prepared early in their educational trajectory.[7]

For Rhode Island, in 2016, college-bound female students earned an average math SAT score of **475**, compared to **510** for male students.[8]

State CTE Contact

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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
[6] https://research.collegeboard.org/programs/ap/data/participation/ap-2016
[7] http://ieeexplore.ieee.org/document/1264690/
[8] https://reports.collegeboard.org/sat-suite-program-results/class-of-2016-results/state-reports