

EDUCATION, EMPLOYMENT & EARNINGS: ANALYZING DATA FROM SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

This Cluster Analysis of *Science, Technology, Engineering and Mathematics* in the Commonwealth highlights information important to each of the pathways — Engineering and Technology, and Science and Mathematics — included in this career cluster.

What trends do we currently see? What trends may we anticipate?

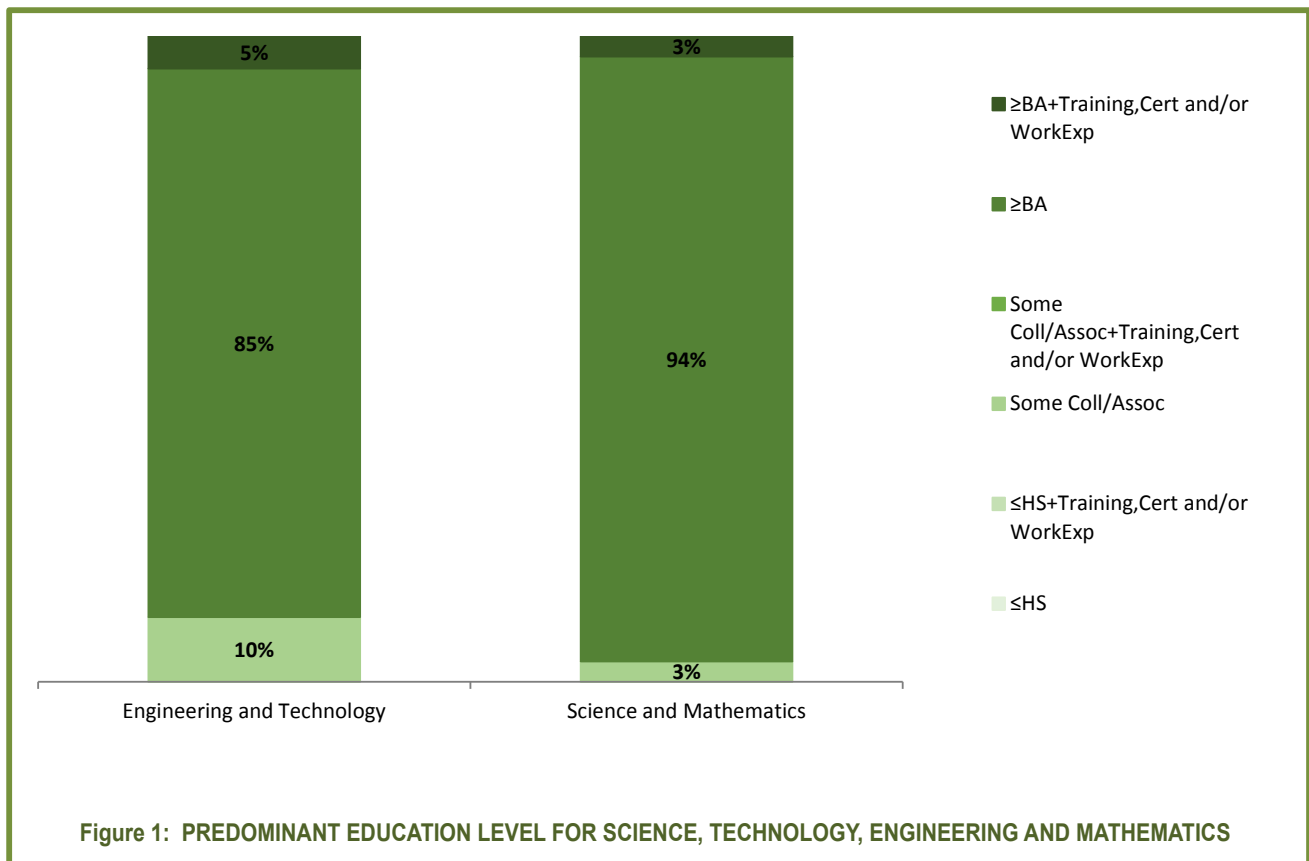
- By 2022, this cluster is anticipated to include nearly 100,000 positions across the Commonwealth, representing a growth rate of about 12 percent over 2012 employment figures.
- Occupations expected to see particularly fast growth during this time period include Atmospheric and Space Scientists, and Biomedical Engineers.
- In 2022, Mechanical and Civil Engineering are anticipated to be the occupations with the highest employment numbers—over 8500 Mechanical Engineering positions and nearly 10,500 Civil Engineering positions are projected for the Commonwealth at that time.

12%

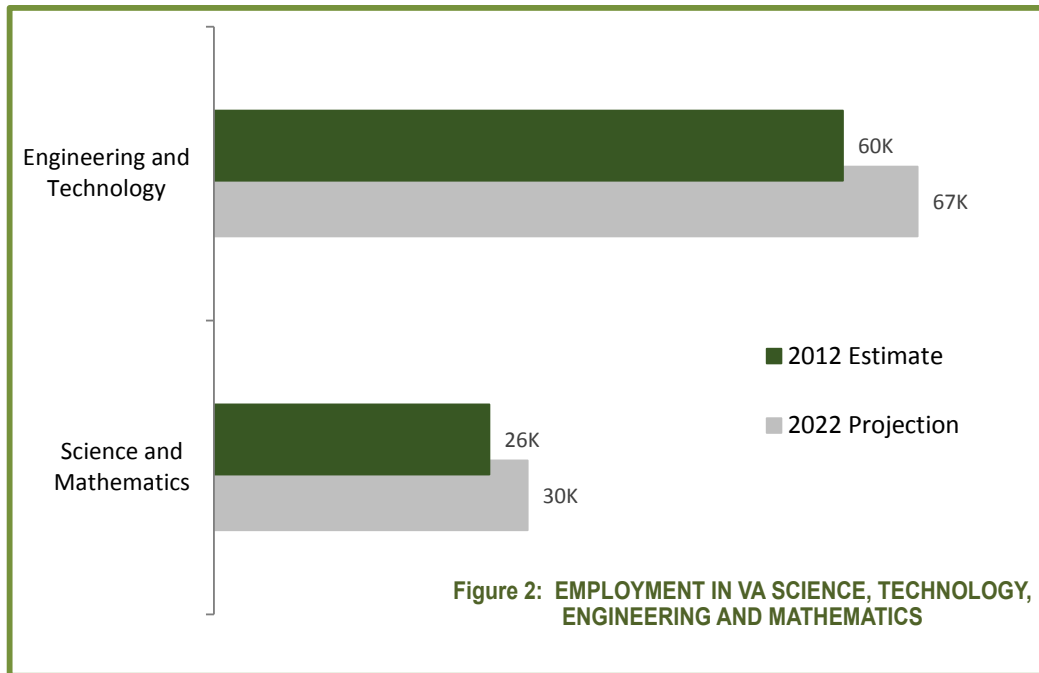
Expected growth in Science, Technology, Engineering and Mathematics jobs by 2022.

EDUCATION

Figure 1 shows the predominant level¹ of education and training in each pathway. Education classification is determined by Trailblazers, based on US Bureau of Labor Statistics occupational education and training data.



Footnote 1: Reflects predominant education by the number of occupations in each pathway, not the number of workers



EMPLOYMENT

Figure 2 compares the estimated 2012 employment for each pathway to projected 2022 employment levels.

Data are provided by the Virginia Employment Commission.

EARNINGS AND GROWTH

Figure 3 presents the size and median wage-earning for the two fastest-growing occupations in each pathway. Wage data are provided by the US Bureau of Labor Statistics' Occupational Employment Statistics program.

