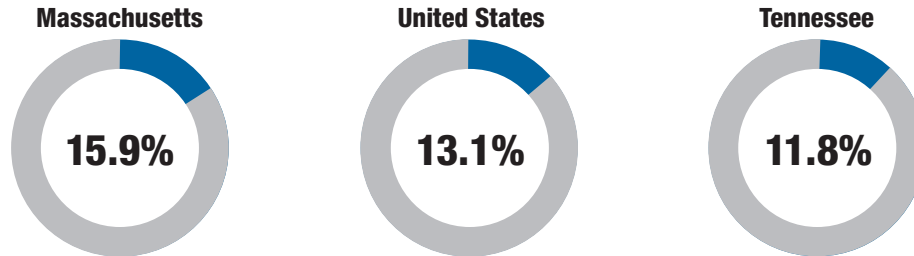
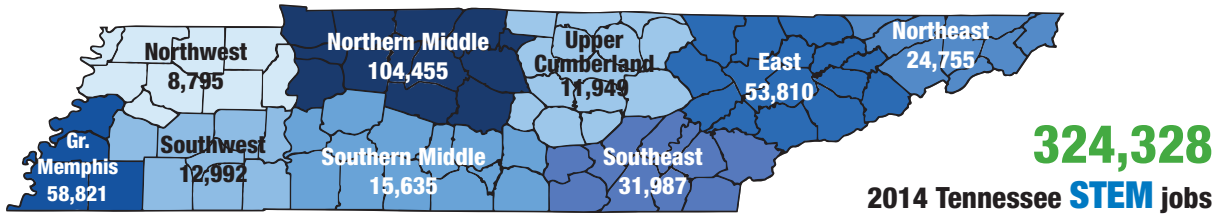


Tennessee STEM

Percent of STEM Occupations in Total Jobs



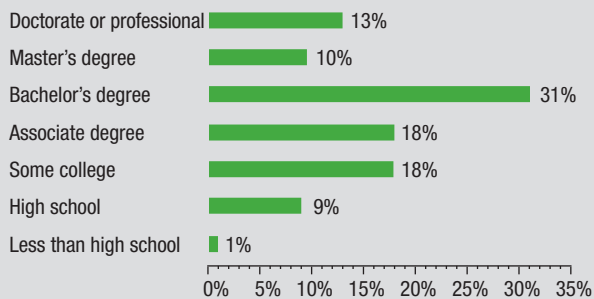
Regional Distribution of STEM jobs in Tennessee



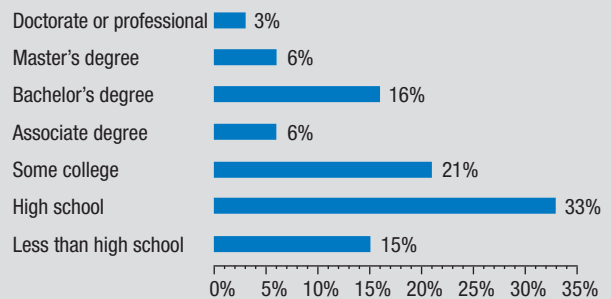
Biggest Problem Facing STEM Occupations in Tennessee: Skill Gap

Educational Attainment Required—STEM vs. Total Industry Occupations

STEM Occupations (excludes ages 18-24)



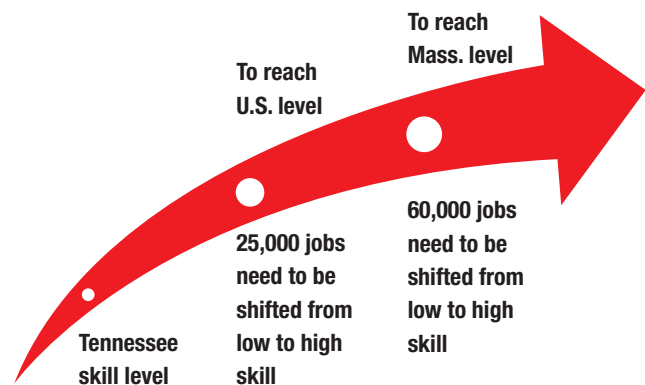
Total Industry (excludes ages 18-24)



Largest Occupational Skill Gaps in Tennessee

- Marine engineers, naval architects—35%
- Computer network architects—33%
- Miscellaneous social scientists, related workers—31%

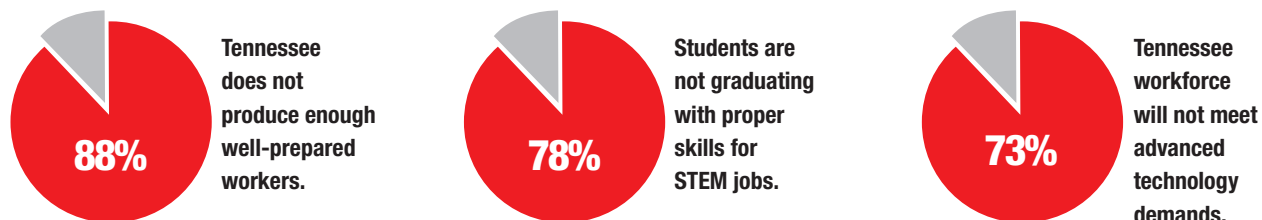
- **Closing the Skill Gap** in Tennessee and aligning STEM concentration with the U.S. level would create an economic impact of nearly \$4.5 billion and an additional 16,000 new jobs.



Tennessee STEM Workforce Challenges

Lack of rigor, interest, ability, emphasis on STEM subjects, knowledge about programs

Responses from Community Stakeholders to BERC's 2015 STEM Survey



Government. Should fund STEM, promote it, provide incentives, and increase awareness, respondents say
Recommendations:

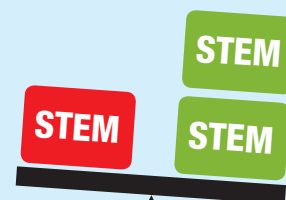
- Connecting educational institutions with workforce needs
- Aligning and coordinating STEM resources across the state

Average Annual
Supply: 11,000

Average Annual
Demand: 19,000

Business. Challenges leading to slow business growth, nonlocal workforce:

- **Recruiting workforce.** Low skill set, finances, location, awareness
- **Job unfulfillment.** Increased training cost, nonlocal recruiting, relocation



■ **Workforce Supply-to-Demand Ratio: 0.59** ■ **Local Unmet Demand Gap: 41%**

BERC STEM Exposure Index

Indicators Evaluated

STEM jobs as a percent of total county jobs
STEM jobs as a percent of Tennessee STEM jobs
Average ACT math score
Average ACT science score
College-going rate (%)
Patents per 1,000 employees (2004–2013)

County Name	STEM Index	Rank
Knox	0.942	1
Williamson	0.937	2
Hamilton	0.904	3
Shelby	0.886	4
Davidson	0.874	5

