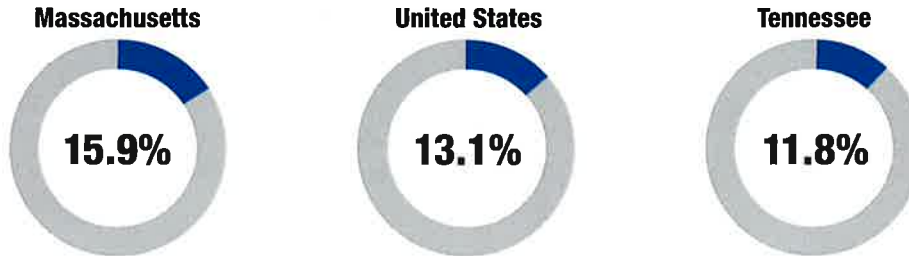
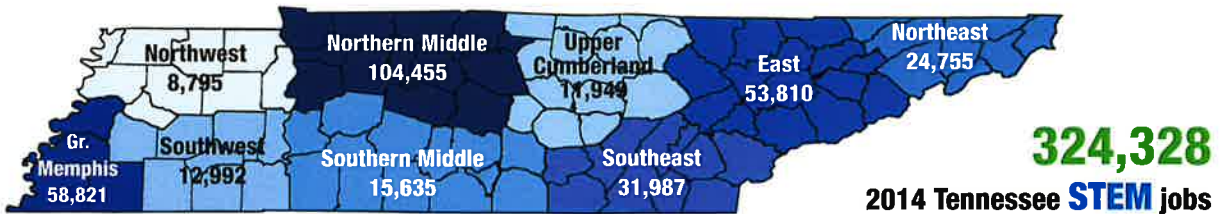


# Tennessee STEM

## Percent of STEM Occupations in Total Jobs



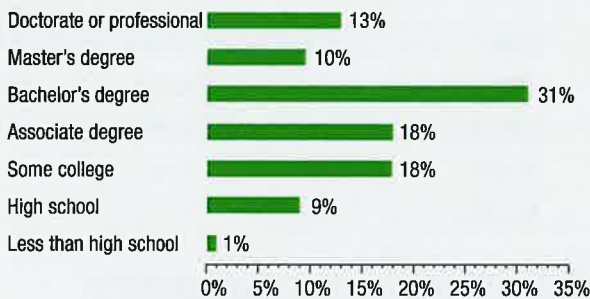
## Regional Distribution of STEM jobs in Tennessee



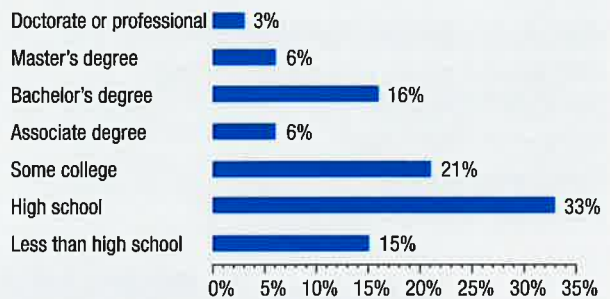
## Biggest Problem Facing STEM Occupations in Tennessee: Skill Gap

### Educational Attainment Required—STEM vs. Total Industry Occupations

#### STEM Occupations (excludes ages 18-24)



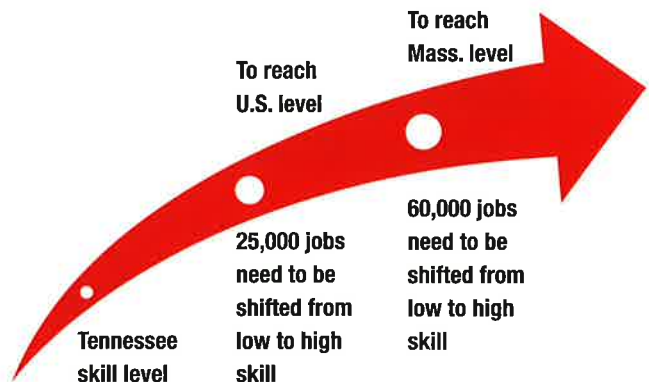
#### Total Industry (excludes ages 18-24)



### 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

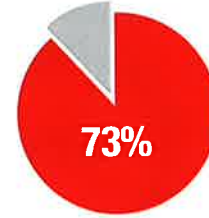
## Responses from Community Stakeholders to BERG's 2015 STEM Survey



Tennessee does not produce enough well-prepared workers.



Students are not graduating with proper skills for STEM jobs.



Tennessee workforce will not meet advanced technology demands.

**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%**

## BERG STEM Exposure Index

Indicators Evaluated	County Name	STEM Index	Rank
STEM jobs as a percent of total county jobs	Knox	0.942	1
STEM jobs as a percent of Tennessee STEM jobs	Williamson	0.937	2
Average ACT math score	Hamilton	0.904	3
Average ACT science score	Shelby	0.886	4
College-going rate (%)	Davidson	0.874	5
Patents per 1,000 employees (2004–2013)			

