



# Careers in STEM

# Our Future Demands

## Science Technology Engineering & Math (STEM)

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- US will have 1.2M plus STEM job openings by 2018.
  - Jobs include scientists, doctors, software developers, and engineers.
- 80% of jobs in the next decade will require technology skills.
- 61% of male STEM college students said that games or toys was the top factor that sparked their interest in STEM.
- 49% of women pursuing STEM degrees chose STEM to make a difference.

*Source: "Occupational Employment Projections to 2018: "U.S. Bureau of Labor Statistics: November 2009.*

# Why Students are Majoring in STEM?

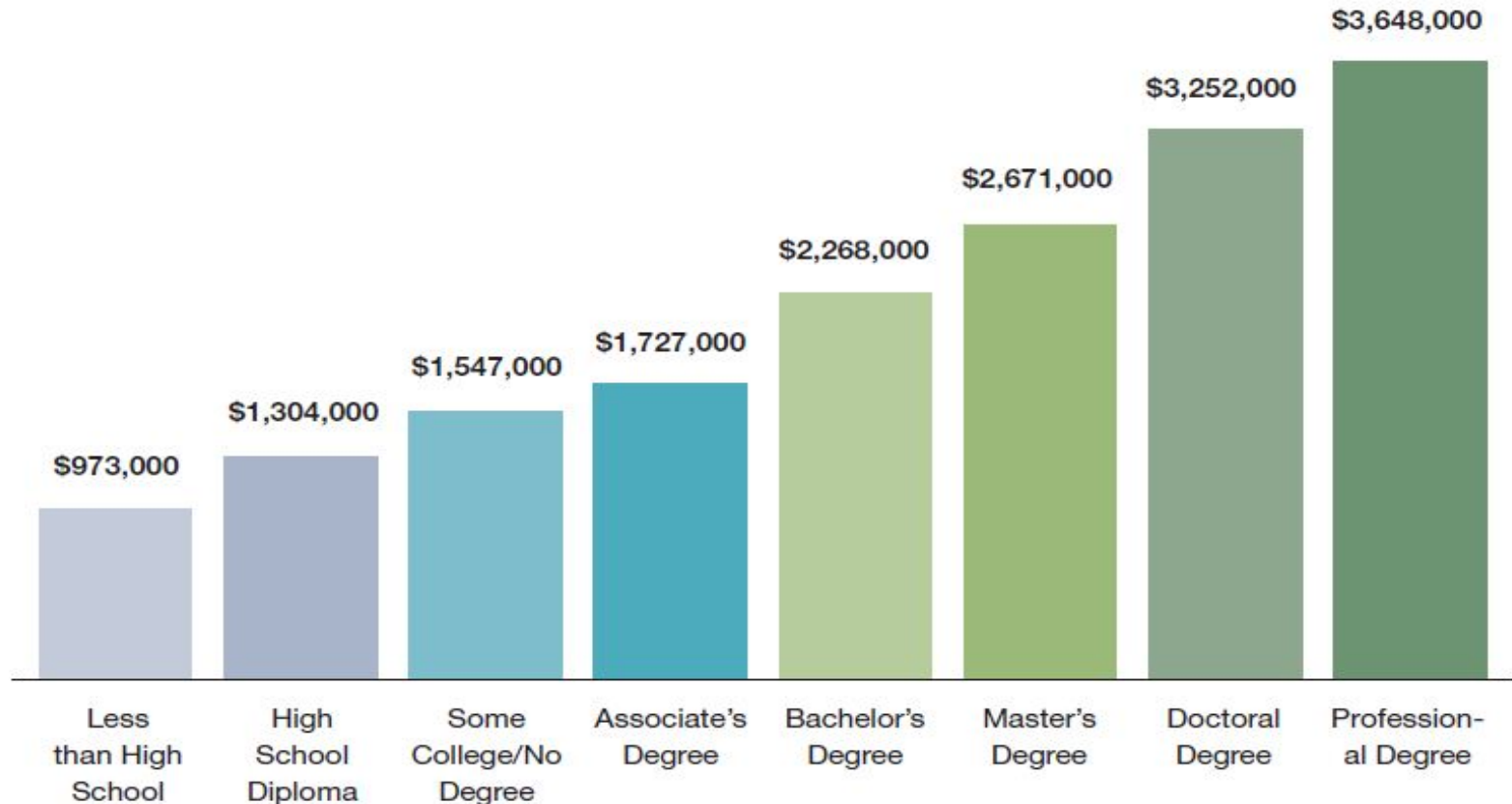
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- 68% of students find the disciplines “stimulating” and/or “challenging”
- 68% of students say “good salaries”
- 66% students say “job potential”



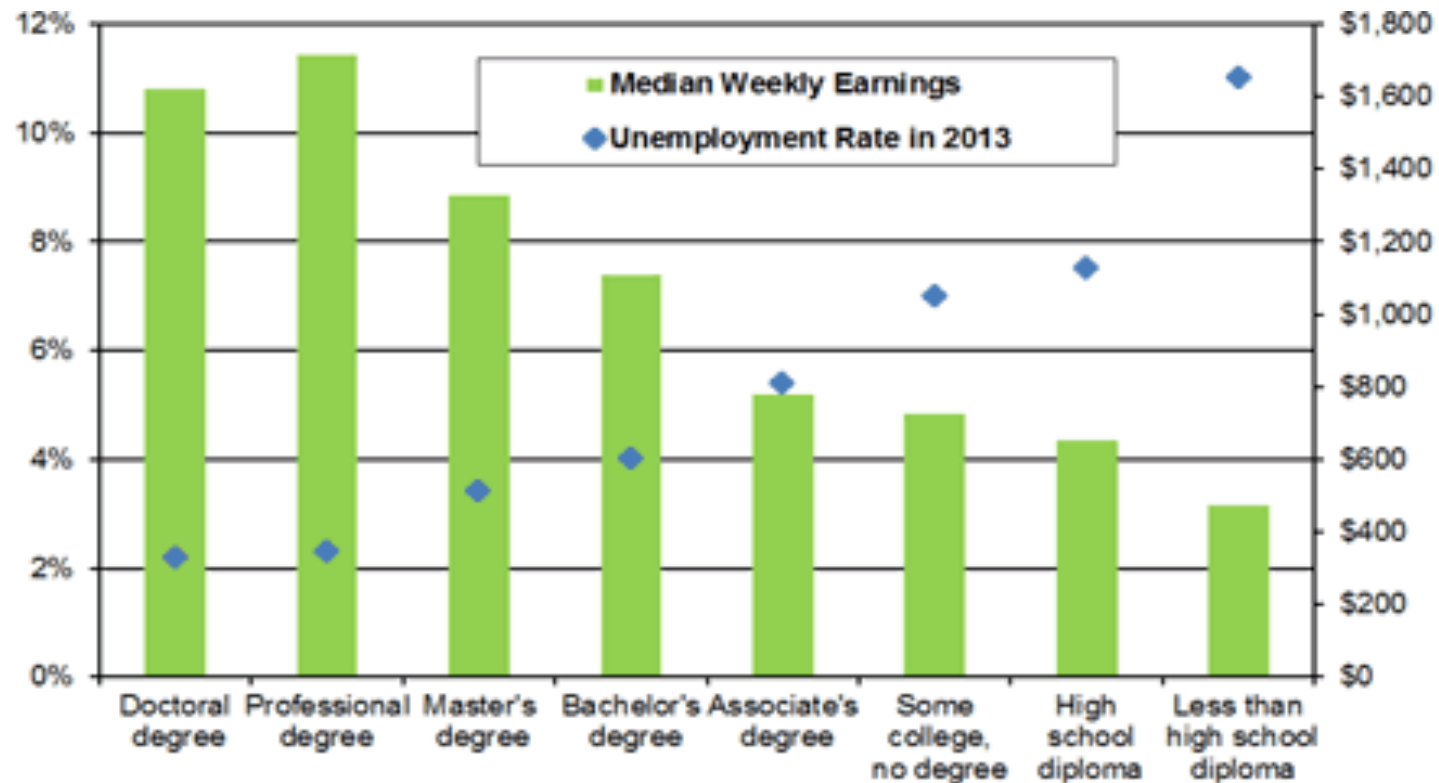
*Source: STEM Perceptions: Student & Parent Survey: “Harris Interactive Online Survey of 500 STEM College Students and 854 Parents of K-12 Students; May 2011.*

# Median Lifetime Earnings by Highest Educational Attainment (2009 Dollars)



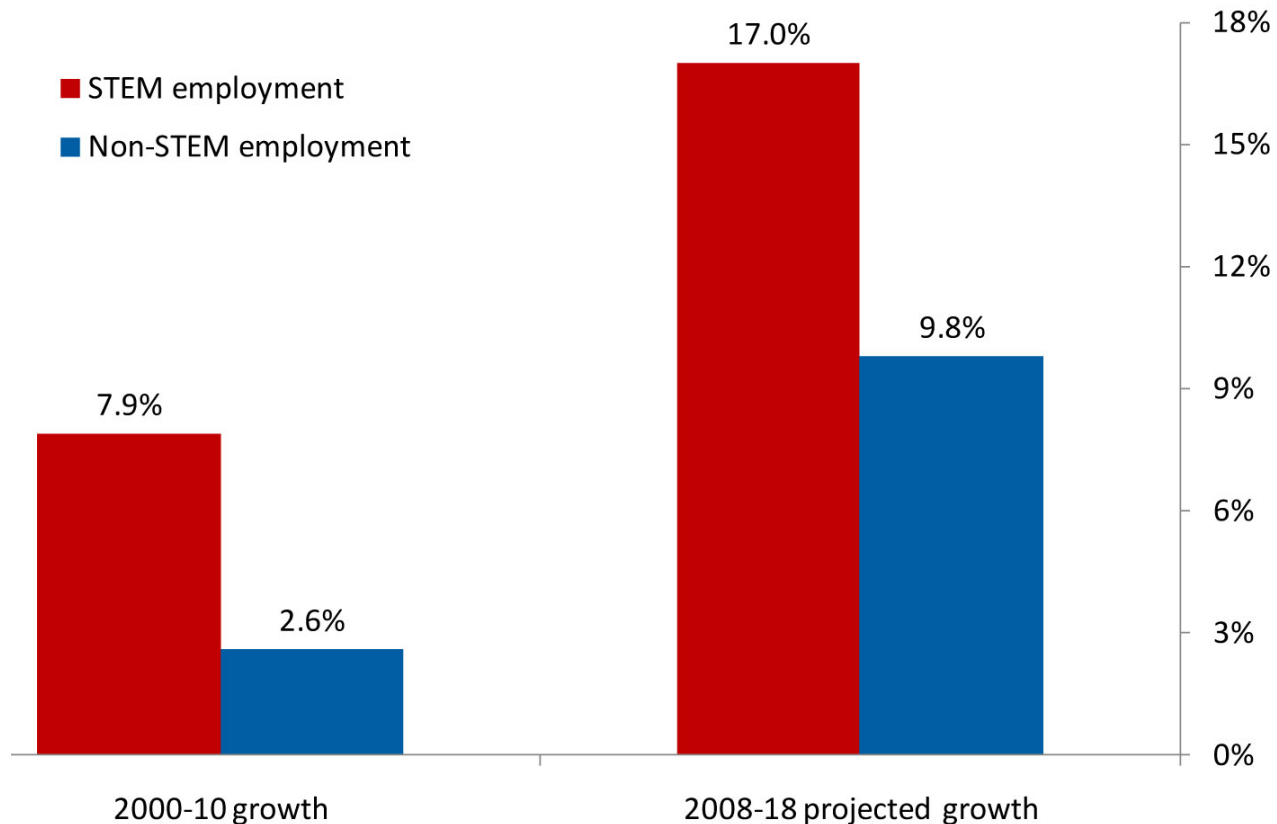
Source: Georgetown University's Center on Education and the Workforce's Analysis of the Census Bureau's 2007-2009 American Community Survey

# Earnings By Education Level and Unemployment Rate (2013, Ages 25+)



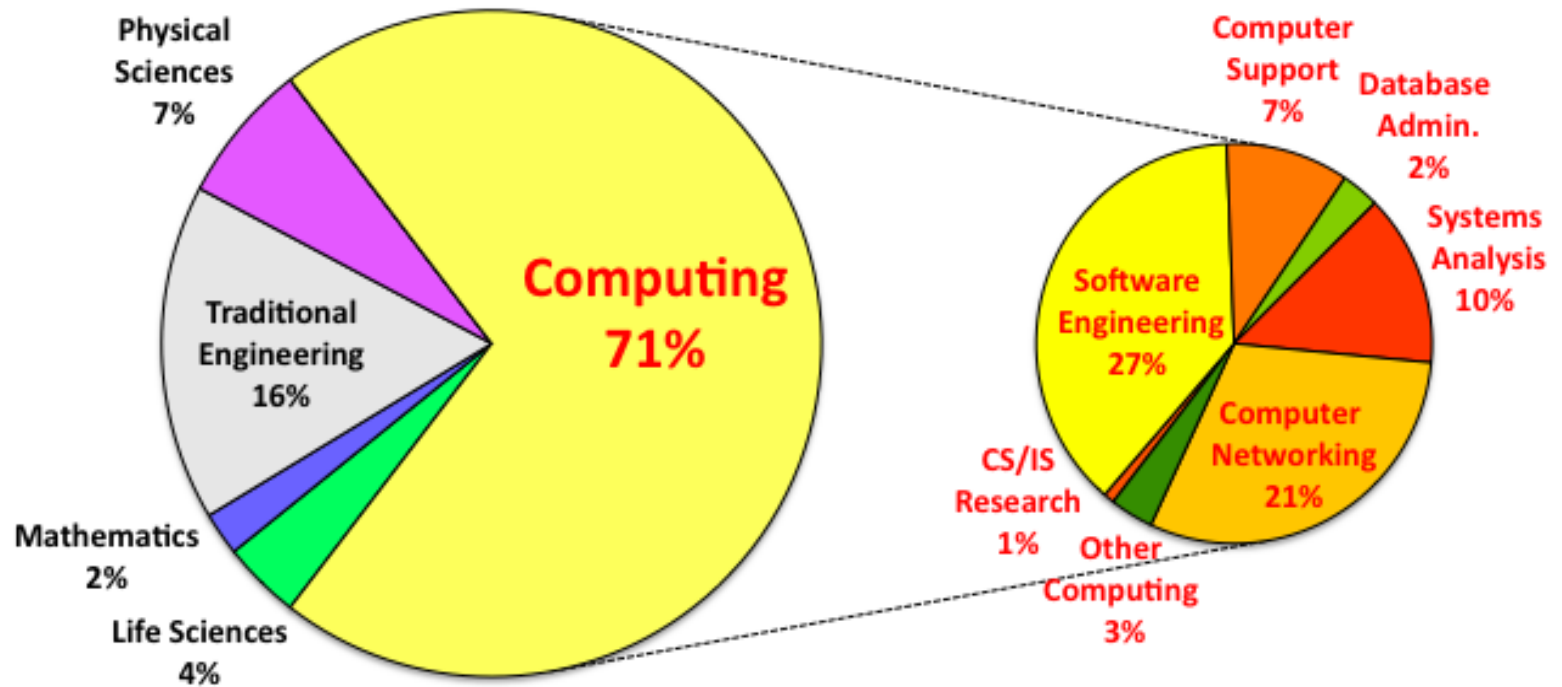
Source: US Department of Labor, Bureau of Labor Statistics

# Recent and Projected Growth in STEM and Non-STEM Employment



Source: *ESA calculations using Current Population Survey public-use microdata and estimates from the Employment Projects Program of the Bureau of Labor Statistics.*

# Percentage of New STEM Jobs By Area Through 2018



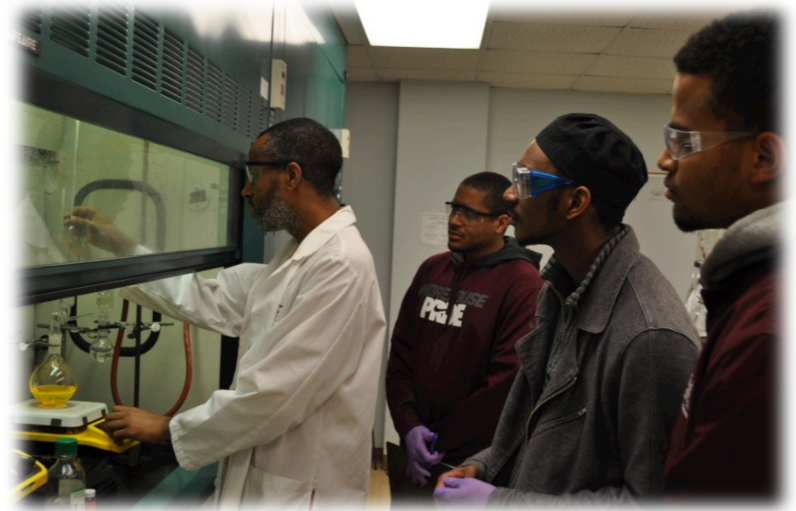
Source: US-BLS Employment Projections, 2008-2018

# Careers in STEM & Applied Science

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## YOUR OPTIONS:

- Undergraduate School
  - => Industry
  - => School Teacher
  - => Health Profession (i.e. Nurse)
- Graduate School
  - => Industry
  - => Government Research
  - => Higher Education
    - Research
    - Teaching
- Professional School
  - => Medical School
  - => Dentistry
  - => Veterinarian Sciences





# The STEM Big Picture

	BS in Industry/Gov	PhD in Industry/Gov	PhD in Academia
Salary Range (0yrs - 10yrs)	\$50K-\$70K	\$80K - \$120K	\$70K - \$120K (12-month)
Job Security	Okay	Good	Great
Freedom	Little	Some	Lots
Respect	Lots	Lots to Some	Little
Visibility	None	Little	Lots
Brief Job Description	Develop	Design & Research	Research & Teach

***PhD's are paid to THINK  
MS's & BS's are paid to DO***