



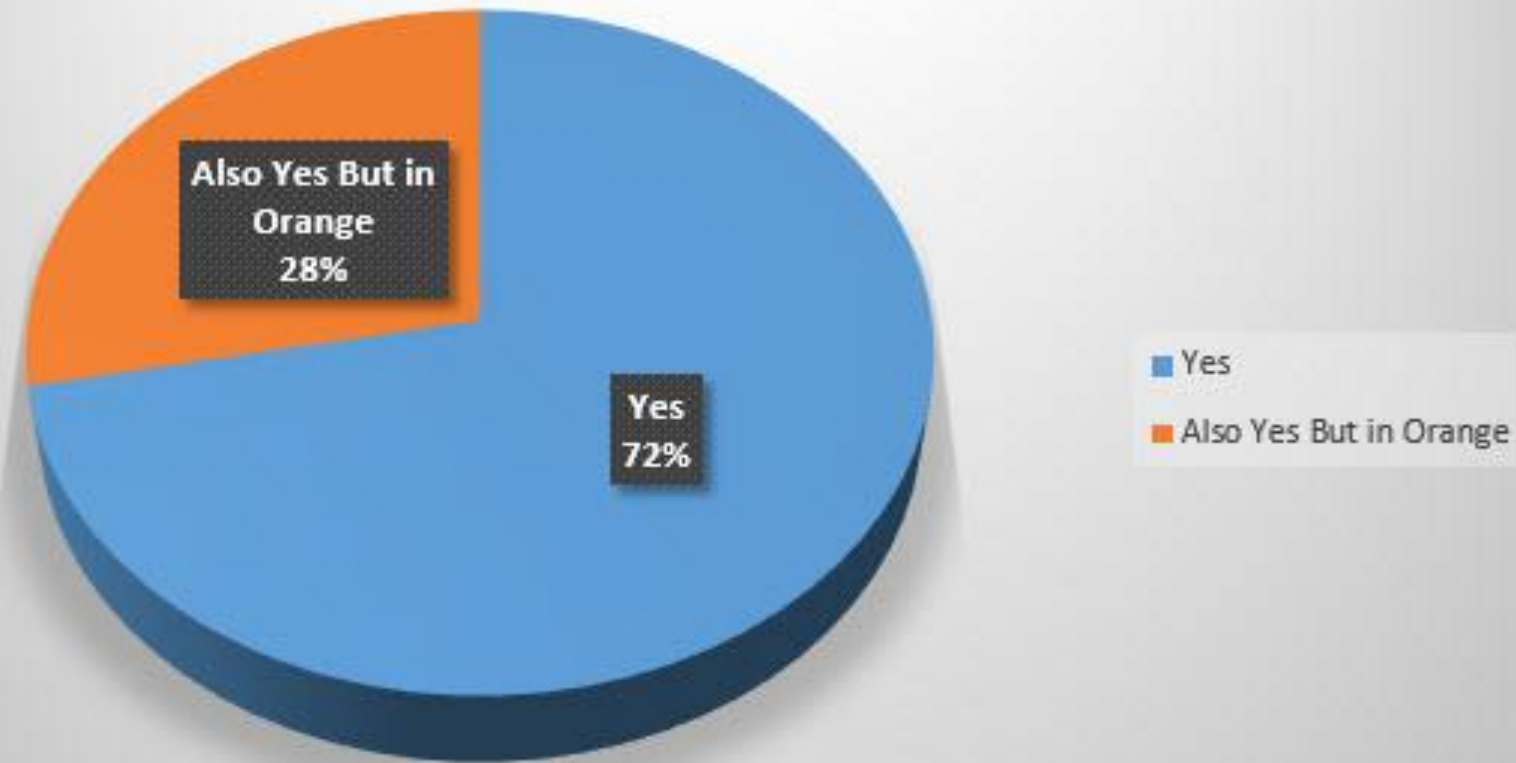
**OGDEN-WEBER**  
TECHNICAL COLLEGE

**2018 Economic Forecast**  
**February 21, 2018**

*EXPERIENCE IS EVERYTHING*



## PowerPoint Presentations Put Me to Sleep





**We build a prosperous community  
by creating a technically-skilled workforce  
one student at a time.**





## Ogden-Weber Technical College Quick Facts

- One of eight technical colleges that comprise the Utah System of Technical Colleges
- Service region focuses on Weber County
- Provide technical education in 36 program areas covering **Business and I.T.**, **Construction**, **Health**, **Manufacturing** and **Service** occupations
- Enroll 5,500 students a year. 24% are high school students.
- High school students attend technical colleges **tuition-free**
- Over **200 area employers** serve on advisory committees that direct programs so they meet their workforce needs.
- Manage Utah's **Custom Fit Program** for Weber County. This program serves an additional 180 area employers.





“Availability of technically-trained workforce”



**Gary Richard Herbert**  
**Governor**  
**Declaration**

*Whereas*, technical education is critically important for the continued growth of Utah's economy -- and more importantly -- for the long-term well-being of Utah's residents;

*Whereas*, Utah hosts a wide-array of outstanding technical opportunities that provide students with high quality programs that align to the needs of the marketplace;

*Whereas*, a technical education exposes students to the practical needs of a developing, global economy and trains them to be successful, adaptive, well-rounded, and industrious;

*Whereas*, the 40,000 students currently enrolled in technical education programs and institutions will find high-quality, high-compensated careers with the nearly 1,200 business partners that collaborate with, support, and invest in these technical education programs;

*Whereas*, industry representation and participation in program design and evaluation create a greater and more effective educational experience for students as well as substantive networking opportunities prior to graduation or certification;

*Whereas*, high school aged students who have a concentration in a specific CTE pathway or program of study are more likely to graduate than students who do not participate in these programs;

*Whereas*, these students are also more likely to further pursue technical education at the collegiate level, eventually landing them a higher likelihood of employment with an occupation related to their interests and training; and,

*Whereas*, it is important we recognize and emphasize the value technical education provides our students and our workforce, which is why my 2019 fiscal year budget calls for a significant investment in technical education programs in every state education system;

*Now, therefore*, I, Gary R. Herbert, Governor of the great State of Utah, do hereby declare 2018 as

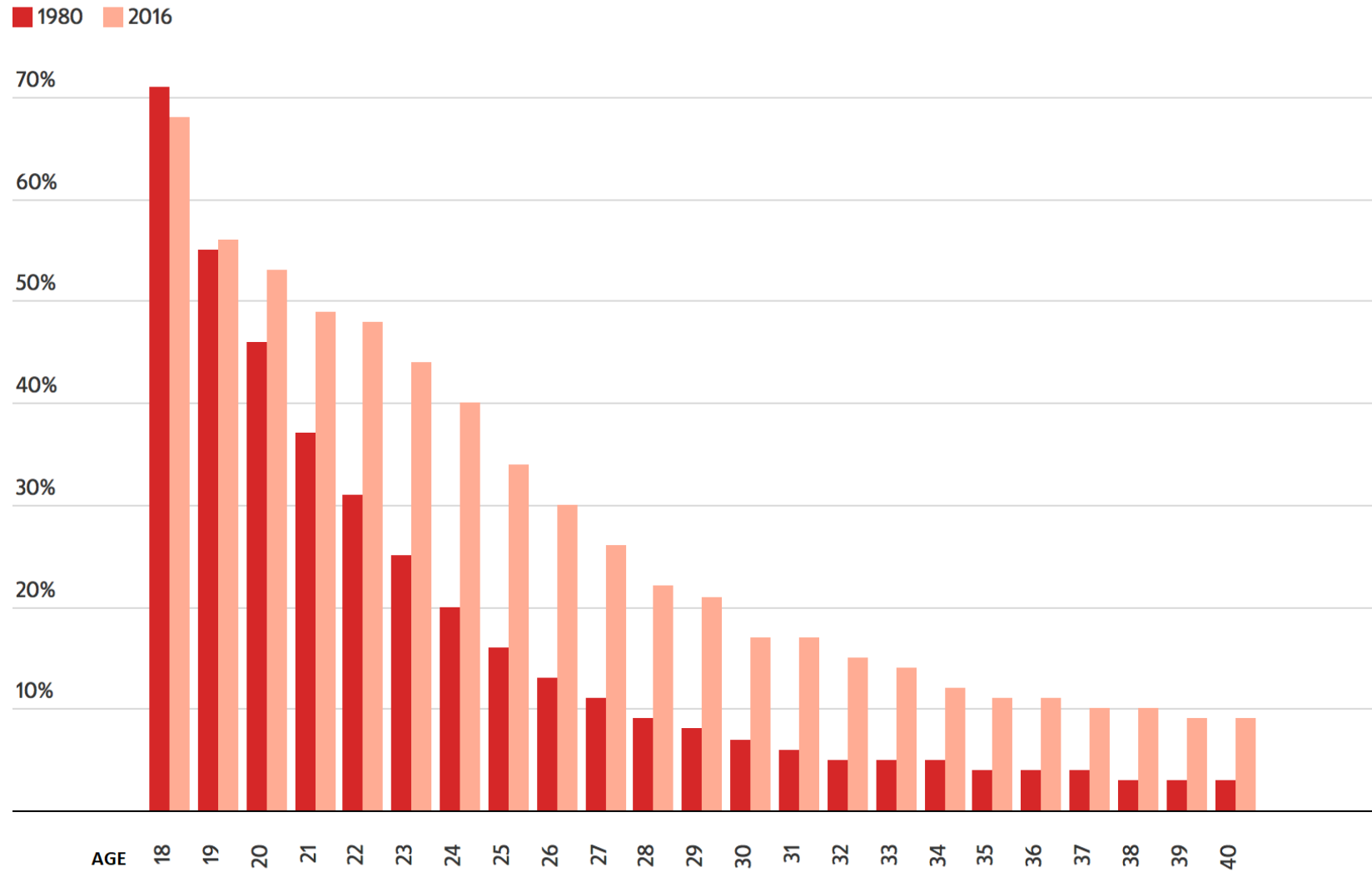
**The Year of Technical Education**

Gary R. Herbert  
Governor

# 2018 – Year of Technical Education



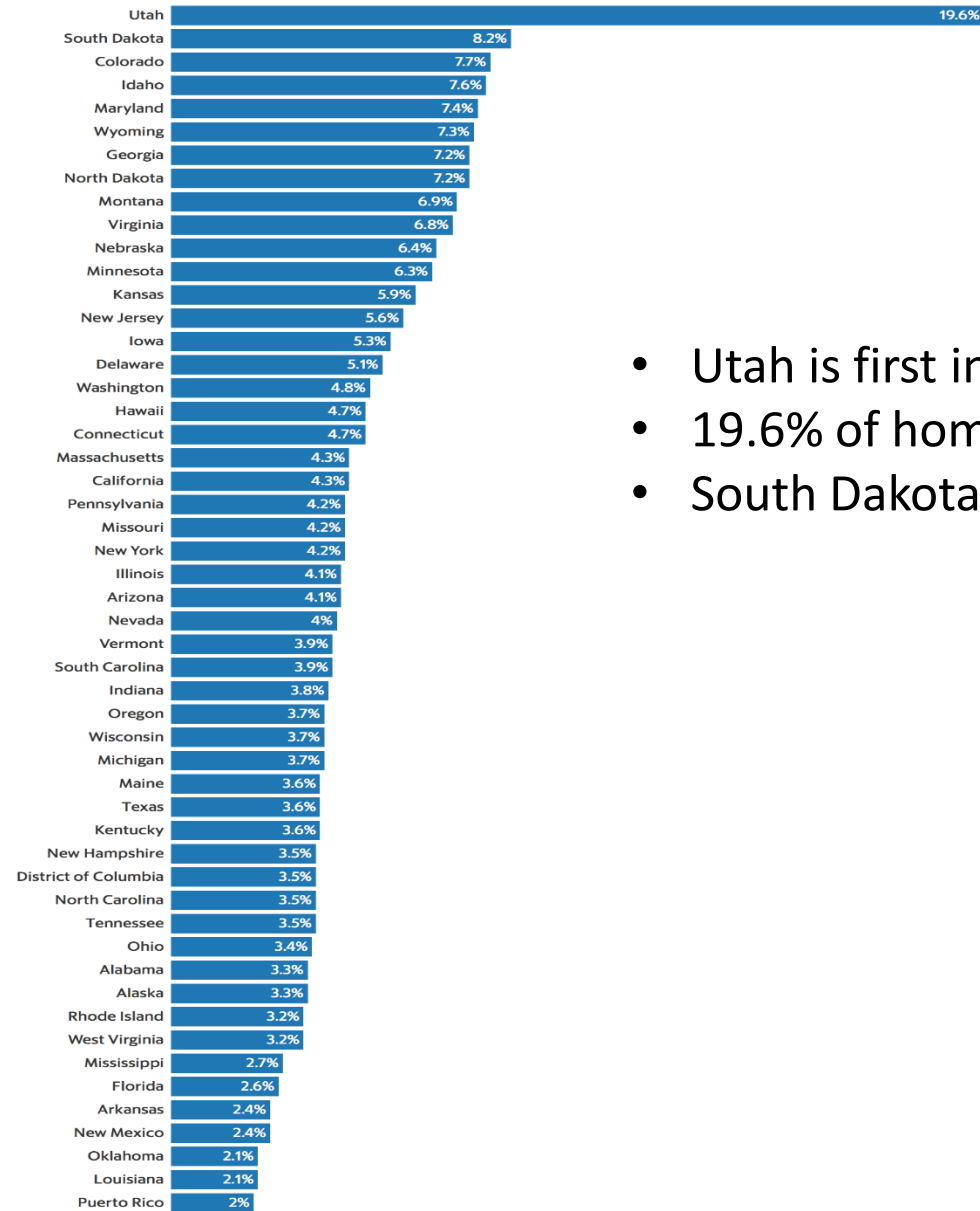
## PERCENTAGE OF YOUNG ADULTS LIVING WITH PARENTS, 1980 VS. 2016



Source: US Census Bureau via Minnesota Population Center • [Get the data](#)



PERCENTAGE OF U.S. HOMES WITH FIVE OR MORE BEDROOMS, BY STATE



Source: US Census Bureau • [Get the data](#)

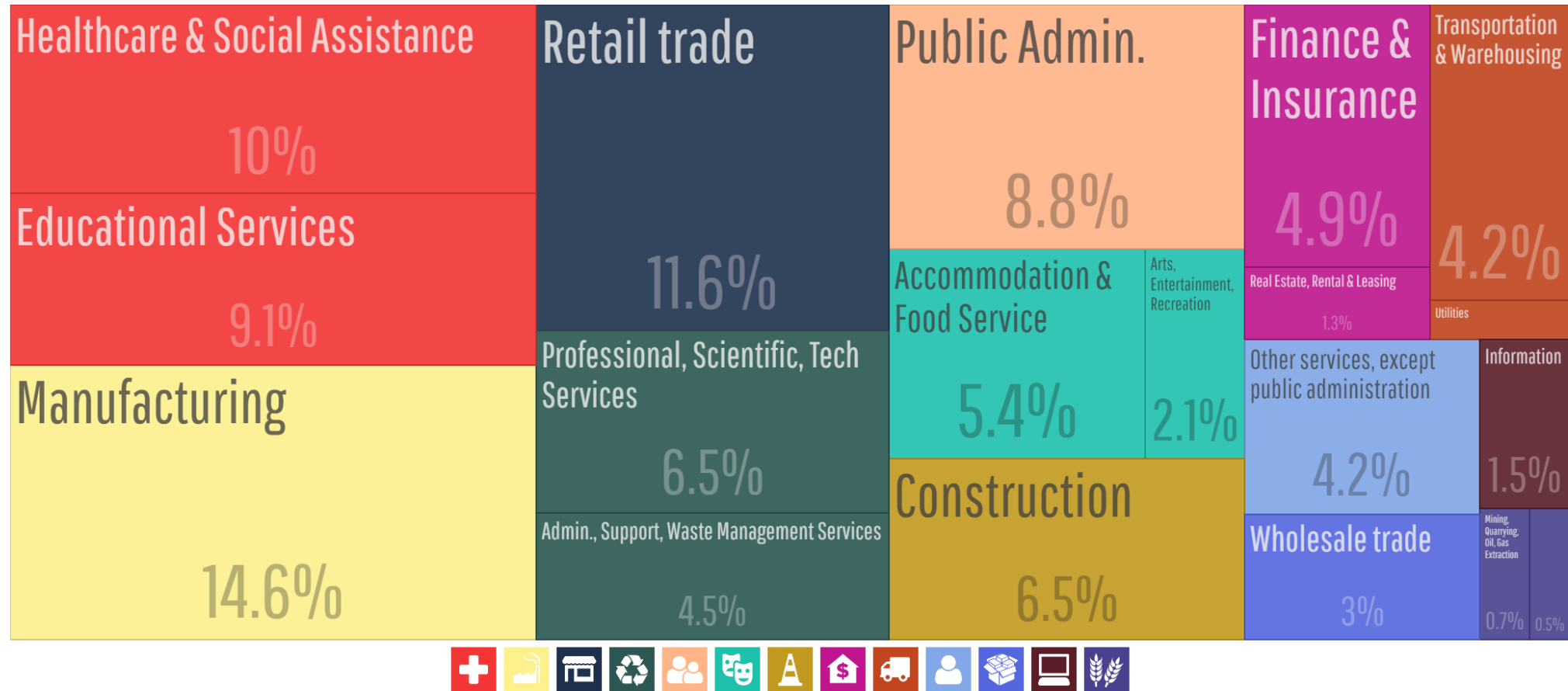
- Utah is first in “Percentages of U.S. Homes with Five or More Bedrooms.”
- 19.6% of homes in Utah have 5+ bedrooms
- South Dakota is second with 8.2%

# Where is our Workforce Now?



## Employment by Industries in Ogden-Clearfield, Ut Metro Area

The closest comparable data for the metropolitan statistical area of Ogden-Clearfield, UT Metro Area is from the state of Utah.



Dataset: ACS 1-year Estimate  
Source: Census Bureau

DATAUSA

# Advanced Industries



## Ogden-Clearfield, UT at a glance

CLICK ON AN INDICATOR BELOW TO VIEW IT ON THE CHART

SELECT A METRIC: [JOBS](#) or [OUTPUT](#)

<p>Advanced industries jobs, 2015</p> <p><b>27,814</b></p> <p>Rank: 74</p>	<p>Advanced industries' share of all jobs, 2015</p> <p><b>11.1%</b></p> <p>Rank: 14</p>	<p>Annual average percent change in advanced industries jobs, 2010–2013</p> <p><b>+4.4%</b></p> <p>Rank: 22</p>	<p>Annual average percent change in advanced industries jobs, 2013–2015</p> <p><b>+3.7%</b></p> <p>Rank: 25</p>
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## Ogden-Clearfield, UT industrial detail

The five largest detailed advanced industries by number of jobs, 2015

Industry	Number of jobs, 2015	Share of all advanced industries jobs, 2015	Growth, 2013–2015
Aerospace Product and Parts Manufacturing	4,118	14.8%	+7.6%
Motor Vehicle Parts Manufacturing	3,519	12.7%	+7.0%
Architectural, Engineering, and Related Services	2,830	10.2%	+4.7%
Other Miscellaneous Manufacturing	2,554	9.2%	+12.3%
Computer Systems Design and Related Services	2,479	8.9%	+6.8%

\*Source: Brookings Institute Report: "America's advanced industries: New Trends"

# Advanced Industries



Advanced industries produce

**\$4.6**  
billion dollars in output in the region.  
(2013, 2005 Chained)

This accounts for

**20.5%**  
of all output in the region (2013).

Advanced industries pay, on average

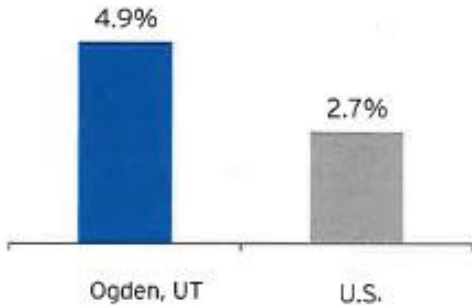
**\$60,580**  
dollars per year (2013).

This compares to average pay of

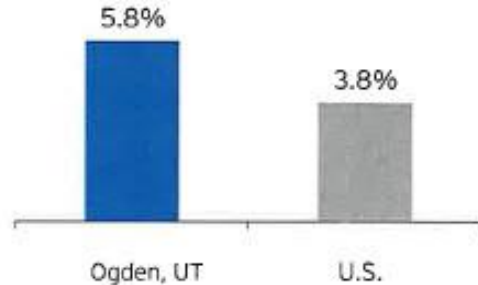
**\$40,180**  
for all industries (2013).

Advanced industry annual average growth, 2010-2013

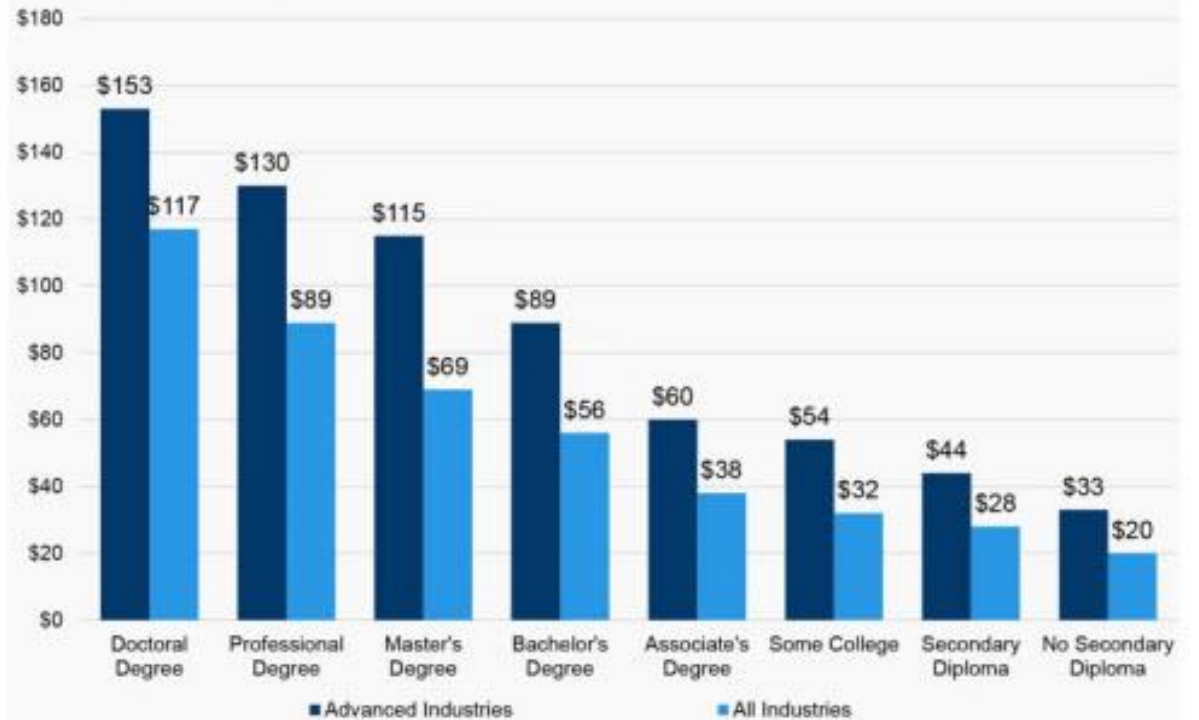
**JOBS**



**OUTPUT**



Average wage for advanced industries, various education levels  
Thousands of dollars



Source: Brookings's analysis of O\*NET data.

**B** Metropolitan Policy Program  
at BROOKINGS

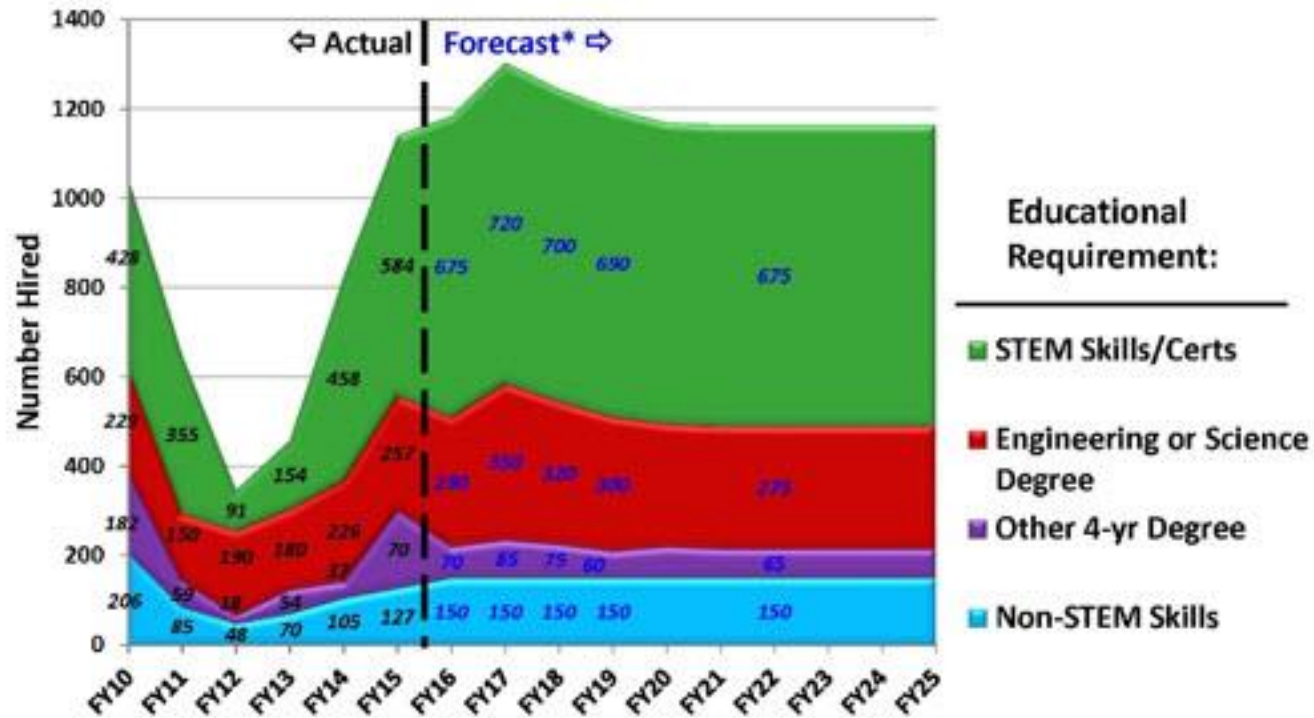
Average wage for advanced Industries, various education levels

\*Source: Brookings Institute Report: "America's advanced industries: New Trends"



## Hill AFB Hiring Demands

Fiscal Years 2010 - 2025



POC: AFSC/EN:Hill, 801-777-4400

*Integrity ★ Service ★ Excellence*

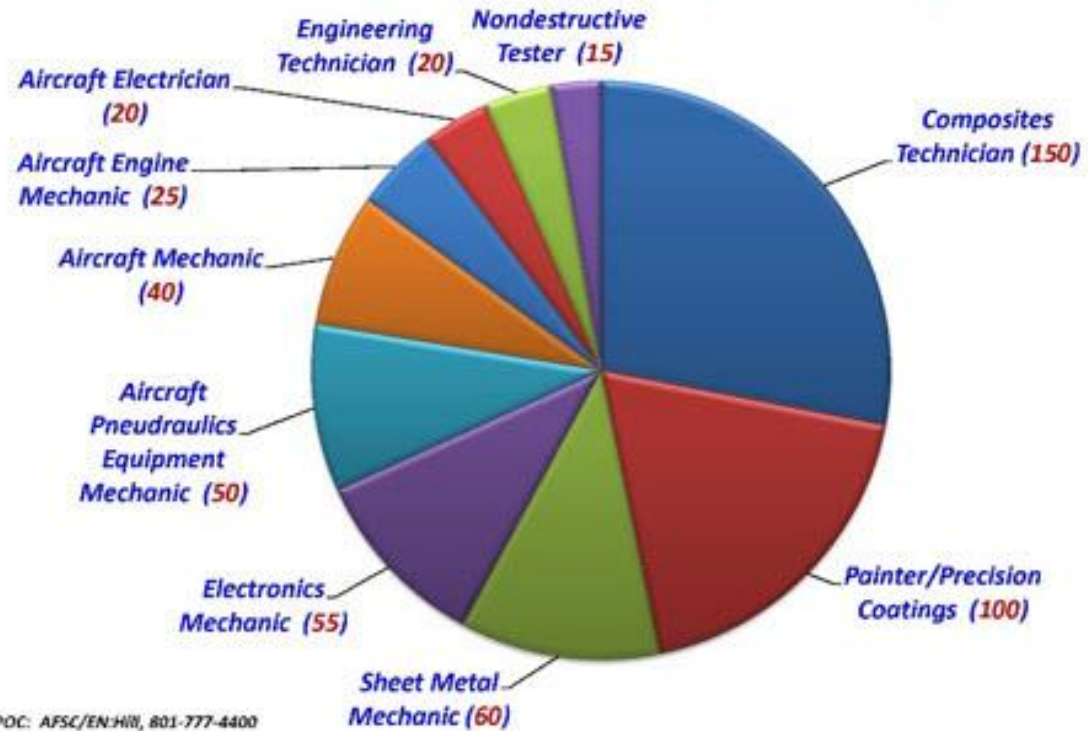
*\*Forecasts based on Oct 2015 data, ~70% confidence level*





## Top 10 Hill AFB Enduring Technical/Industrial Skills

*Anticipated annual demand for the next 10 years*



POC: AFSC/EN:Hill, 801-777-4400

# FORECAST



## CTE Board Comprehensive Study (Nov. 2016)

*“[T]he labor supply from USHE and UCAT is **short of the total labor demand**...”*

*“...All evidence shows a gradual tightening of Utah’s labor market ..., with **employers struggling to find employees**[.]”*  
(pg. 54)

*“[Labor] supply is **expected to decrease** and **demand is expected to continue to grow**. The outcome would be an ever-increasing tight labor market[.]”* (pg. 59)



# Tech Jobs in Highest Demand

- Welders
- CNC Machinists
- Composite Technicians
- Non-Destructive Inspection/Testing
- Industrial Automation
- Medical Coders
- Medical Assistants
- Dental Assistants
- Electricians
- Programmers
- Automotive Technicians
- Coating/Painting Specialists
- Computer Engineers/Computer Scientists
- Electrical Engineers
- Mechanical Engineers
- Registered Nurses
- Dental Hygienists
- Process Engineers
- Controls Operation Technicians

# Challenges

- Largest factor limiting availability of technically-skilled workforce is **perception**
- California is spending **\$6M to improve the perceptions** of technical education and **\$200M to improve delivery** of technical education.
- More than half of all STEM jobs call for technically-trained individuals **with less than a bachelor's degree.**
- Utah is **exporting** its technically-skilled workforce





# Solutions – What's Being Done

- Stackable Credentials
- Technical Education Scholarships for High School Graduates
- SB 104 – Talent Development & Retention Strategy
- Microcredentials and Industry Certifications
- New Apprenticeship Models for Underemployed or Incumbent Workers
- ***Technical education benefits every student.***