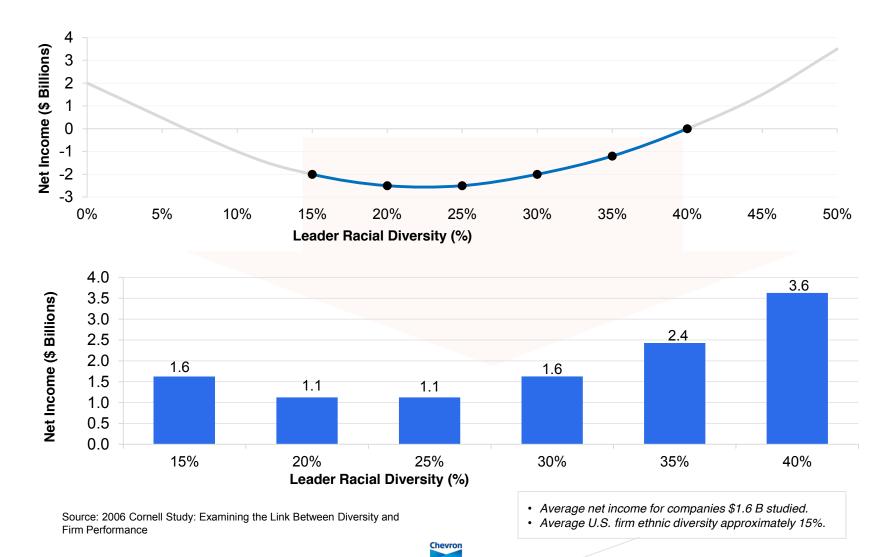


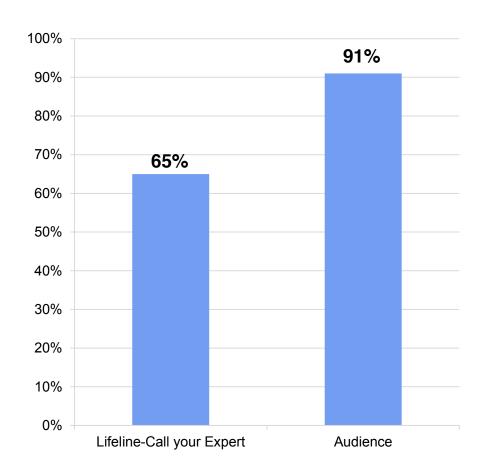
# There is a Relationship Between Leadership Diversity and Performance

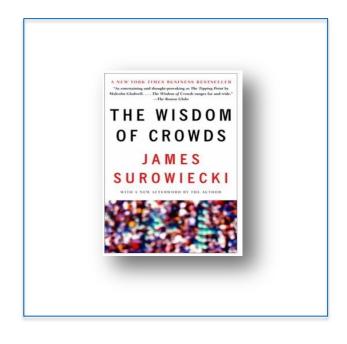


## **Diversity Does Improve Group Performance**

#### Who Wants to be a Millionaire

(Percent Accurate)





#### **Key Themes:**

- Diversity trumps ability. Diverse groups can often outperform a group of the best.
- People with different backgrounds bring new information, forcing group members to prepare better, anticipate alternative viewpoints.

3



#### Unconscious bias is real

# Impact of Blind Auditions

- Top 5 U.S. orchestras had 5-10 percent women in 1970s and 1980s
- Blind auditions start during this time (no shoes allowed)
- Orchestras are now 25-30 percent women
- Women now 50 percent more likely to advance to finals in competing for orchestra position

#### Women in Leadership

Setting the agenda for current and future leaders

## How blind auditions help orchestras to eliminate gender bias

To get more women into their ranks, many orchestras use blind auditions where musicians perform behind a screen. Could we replicate this in business?

#### Curt Rice

Guardian Professional, Monday 14 October 2013 07.00 EDT



The number of female musicians in orchestras has increased since blind auditions became commonplace Photograph: Lebrecht Music And Arts Photo Li/Alamy



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### **Understanding unconscious bias**

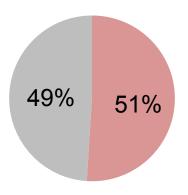
Unconscious biases are errors in judgment that cause people to make choices that unwittingly favor one group over another.



- Most people:
  - are unaware that they harbor unconscious biases,
  - do not recognize situations in which unconscious bias may play a role in their decision-making,
  - often hold **conscious** beliefs that are directly opposite of their unconscious bias.
- Unconscious biases are most prevalent in situations where individuals must make decisions based on an overwhelming amount of data, under time constraints.
- The brain uses unconscious biases as "short cuts" to make decision-making easier and faster.
- Awareness of the potential for unconscious bias in decision-making can often mitigate its effects.

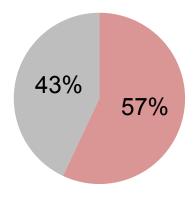
## There is a gender gap at the top

## **Population** U.S.



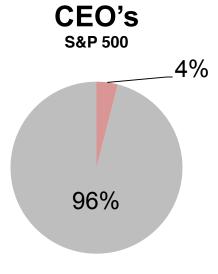
Source: Census.gov

## College Graduates Bachelors Degree



Source: NCES.ed.gov



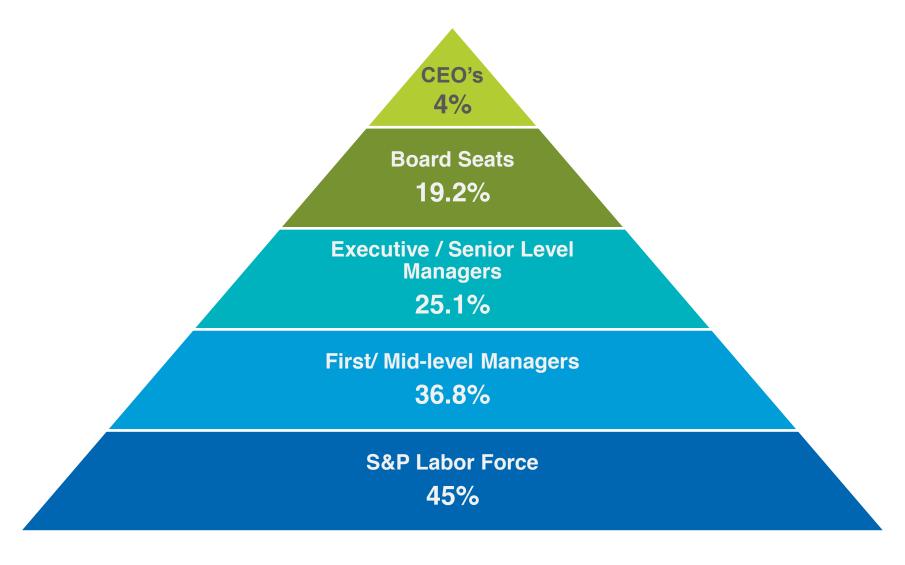


Source: Catalyst.org



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## Women in S&P 500 companies

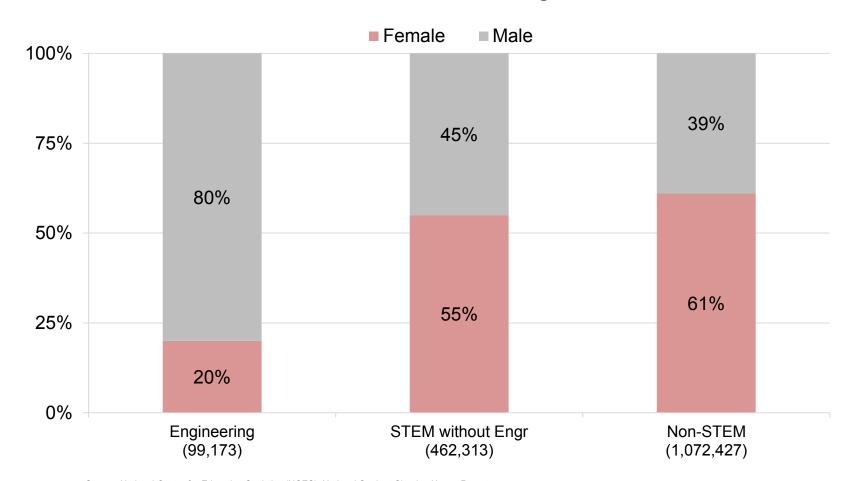


Source: Catalyst.org



## Women are underrepresented in STEM

#### **Gender Distribution of Bachelor's Degrees Awarded**

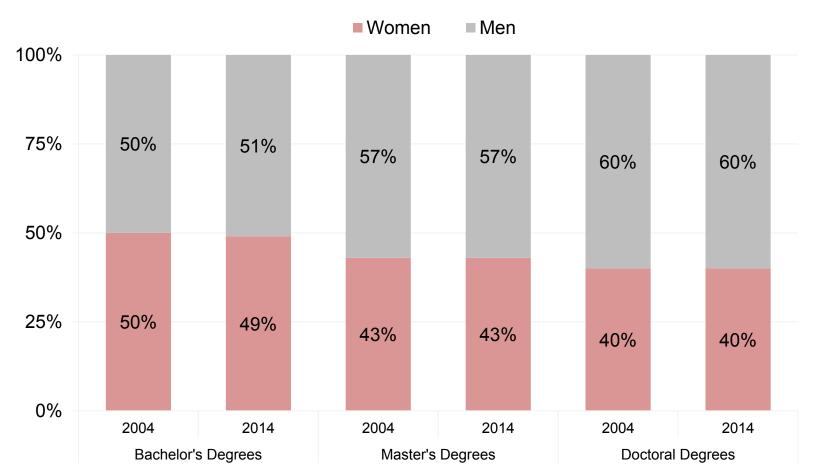


Source: National Center for Education Statistics (NCES), National Student Clearing House Report.



## **Degrees awarded - STEM**

#### **Gender Distribution of Science and Engineering Degrees by Level**

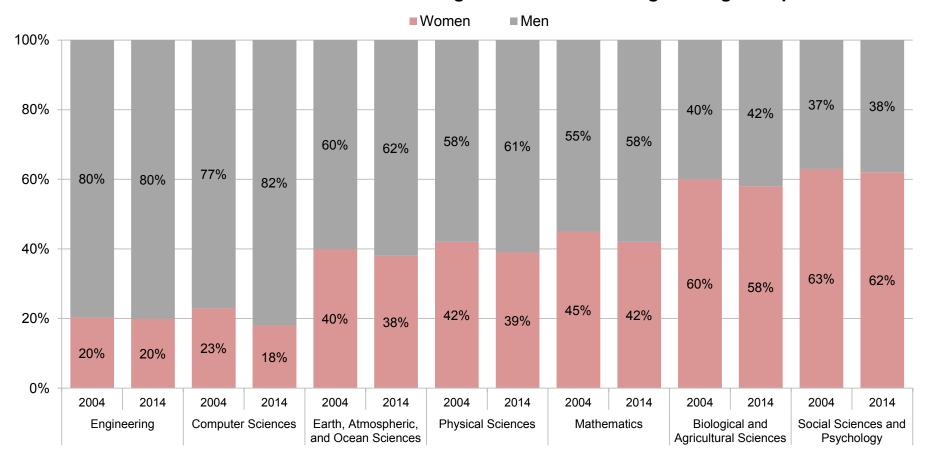


Source: National Center for Education Statistics (NCES), National Student Clearing House Report.



### **Gender differences in STEM degrees**

#### Gender Distribution of Bachelor's Degrees in Science & Engineering Disciplines



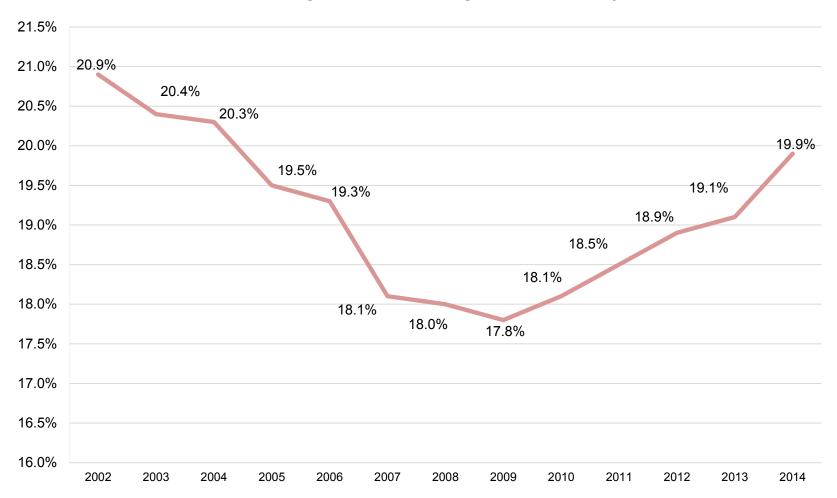
Source: National Center for Education Statistics (NCES), National Student Clearing House Report.



10

## Women engineering degrees returning to previous levels

#### **Percentage of Bachelor Degrees Awarded by Women**



Source: American Society of Engineering Education (ASEE)



#### Women in Life Sciences

## Gains in life sciences:

70%

**Bachelors Degrees** 

39%

**Assistant Professors** 

24%

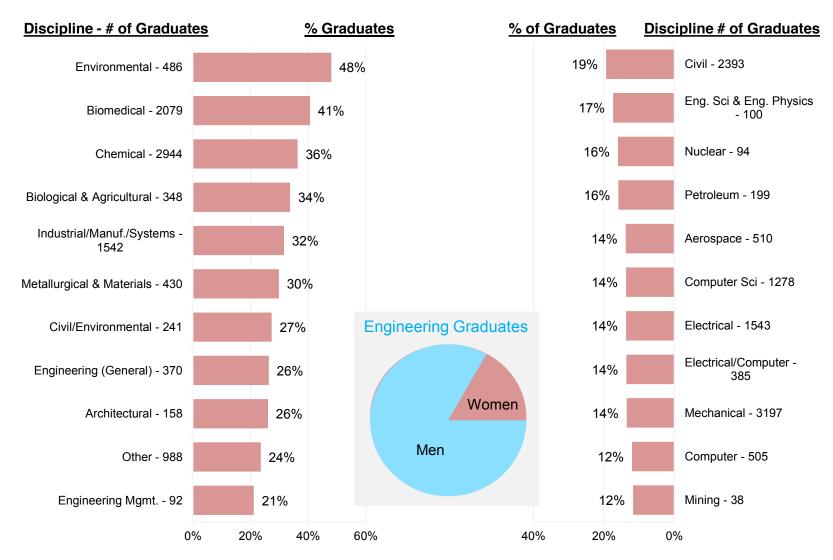
**Full Time Professors** 

Under representation in physical science, technology, engineering & math:

28%

Earning Doctorates

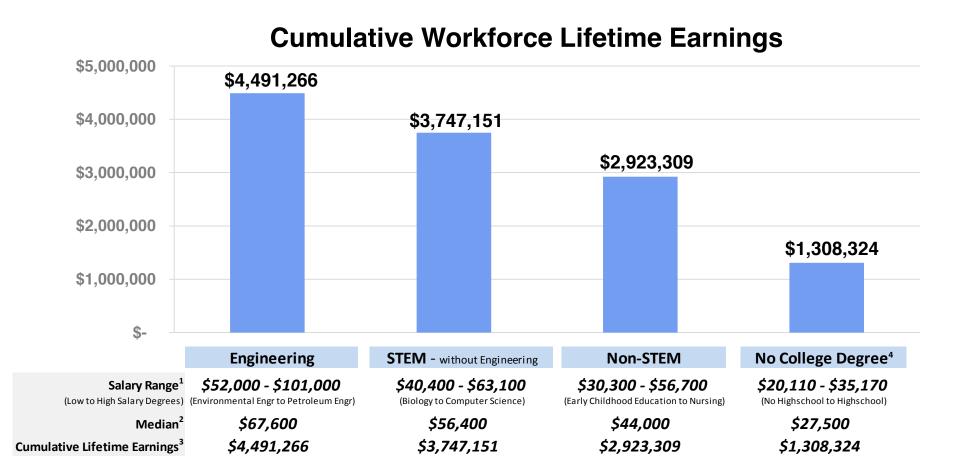
### Women in engineering bachelors degrees by discipline in 2014



Source: American Society of Engineering Education (ASEE)



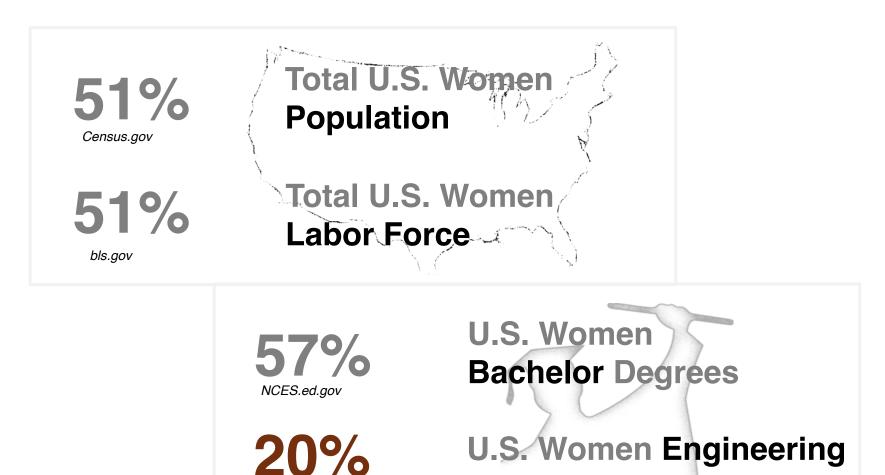
### **Earnings power of engineers**



- 1. Data source for salary ranges come from payscale.com.
- 2. Data source for median salaries come from the National Center for Education Statistics, (NCEE) and the Bureau of Labor Statistics (BLS).
- 3. Cumulative Lifetime Earnings was derived using the median salary, and a 5% increase per year for 30 years for Engineering, STEM, and Non-STEM Degrees. A 3% increase was used for No College Degree.
- 4. No college degree salary come from the Bureau of Labor Statistics (BLS), and includes high school diploma and no high school diploma.



#### **Call to Action**



Frankly, this is not good enough!

ASEE.org

**Bachelor Degrees** 



# Women's Engineering Summit: The Power of Convening





## Diversity and Inclusion Drives the Power of Engineering

"Engineering empowers society in unprecedented ways. It is at the core of all innovation, resulting in tremendous societal and economic benefits; it is the most important discipline to address current and emerging challenges in the United States and on a global scale; and it provides new, imaginative ways to enrich life.

A fundamental requirement for growth of this enabling power, is for the engineering community to attract and engage people from all demographics of our society."

ASEE Statement on Diversity and Inclusiveness





