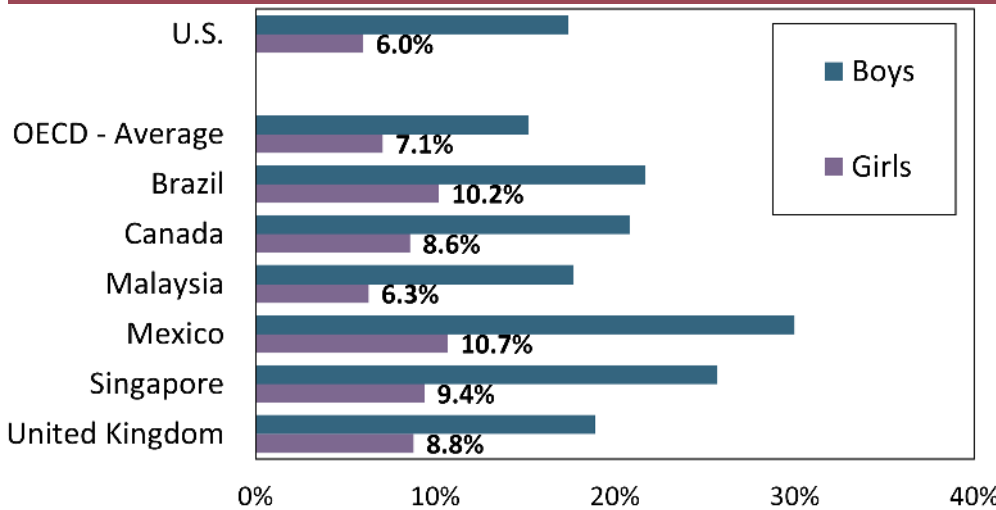




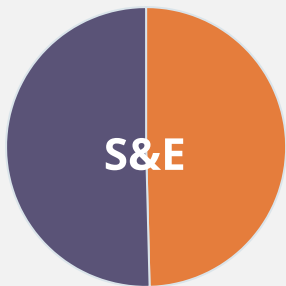
## Students' Science and Engineering Career Expectations Across the World



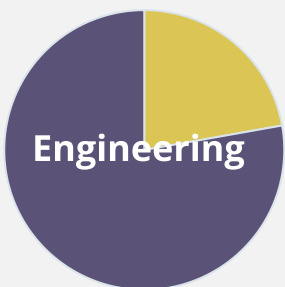
Across the globe, male students expressed science and engineering career expectations at twice the rate of young women in the 2018 PISA survey. **However, the U.S. stands out for having one of the lowest proportion (6%) of 15 year-old young women who indicate aspirations to pursue science and engineering careers.**

## From STEM Degrees to STEM Workforce

### Women

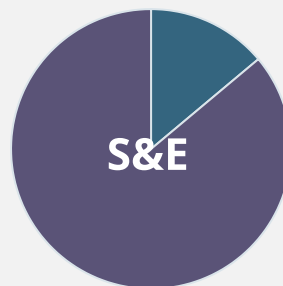


Science & engineering degrees were earned by women in 2018, and they comprised about **29.4% of those in S&E jobs** in 2019

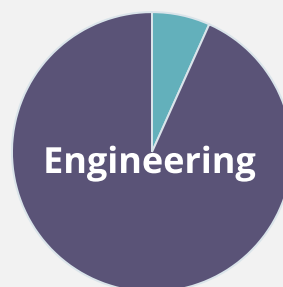


Bachelor's degrees in engineering were earned by women in 2018, however, they represented **15% of those in engineering jobs** in 2019

### Women of Color



Bachelor's degrees in science and engineering were earned by Women of Color in 2018, and they made up only **10.8% of those in S&E jobs** in 2019



Bachelor's degrees in engineering were earned by Women of Color in 2018, and they comprised only **5.6% of those in engineering jobs** in 2019



## Top 10 Engineering Degrees Awarded to Women: 2019

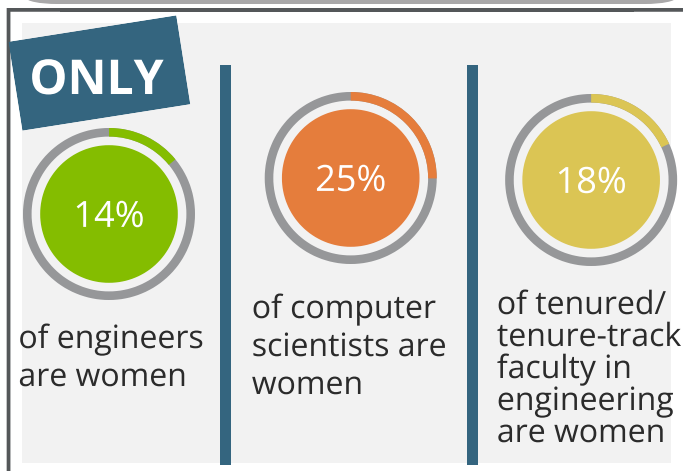
- |   |                        |    |  |
|---|------------------------|----|--|
| 1 | Mechanical Engineering | 6  | Industrial/Manufacturing/<br>Systems Engineering |
| 2 | Chemical Engineering   | 7  | Electrical Engineering                           |
| 3 | Computer Science       | 8  | Computer Engineering                             |
| 4 | Biomedical Engineering | 9  | Engineering (General)                            |
| 5 | Civil Engineering      | 10 | Metallurgical &<br>Materials Engineering         |



## Women in the Engineering Workforce

Female engineers earn **90¢** for every \$1 male engineers earn.

### WOMEN LEAVING ENGINEERING/STEM



**OVER 32%**  
of women switch out of STEM degree programs in college.

**ONLY 30%**  
of women who earn bachelor's degrees in engineering are still working in engineering 20 years later.

**30%**  
of women who have left the engineering profession cite organizational climate as the reason.

### SOURCES:

1. Corbett, C., & Hill, C. (2015). Solving the Equation: The Variables for Women's Success in Engineering and Computing. Washington, DC: American Association of University Women.
2. Fouad, N. A., Singh, R., Fitzpatrick, M. E., & Liu, J. P. (2012). Stemming the tide: Why women leave engineering. University of Wisconsin, Milwaukee.
3. Higher Education Research Institute, University of California, Los Angeles. (2019). The American Freshman: National Norms, Fall 2019 (expanded version).
4. National Center for Science and Engineering Statistics. 2021. *Women, Minorities, and Persons with Disabilities in Science and Engineering: 2021, Tables 5-3 and 9-7*
5. OECD, PISA 2018 Database, *Table II.B1.8.19*
6. Pew Research Center, April, 2021, "STEM Jobs See Uneven Progress in Increasing Gender, Racial and Ethnic Diversity"
7. Roy, J. (2020). Engineering by the numbers 2019. American Society for Engineering Education.
8. U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, Digest of Education Statistics 2019, Tables 325.35 and 325.45.
9. U.S. Dept. of Labor, BLS: 11. Employed persons by detailed occupation, sex, race, and Hispanic or Latino ethnicity (Data for 2020; updated on January 22, 2021), <https://www.bls.gov/cps/cpsaat11.htm>