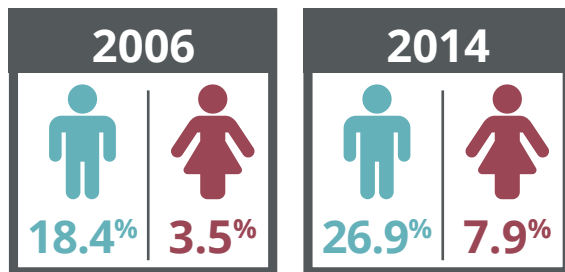


FAST FACTS

research.swe.org

FRESHMEN INTENTIONS TO MAJOR IN ENGINEERING, MATH, STATISTICS, OR COMPUTER SCIENCE:



WOMEN LEAVING ENGINEERING/STEM

OVER 32%

of women switch out of STEM degree programs in college.

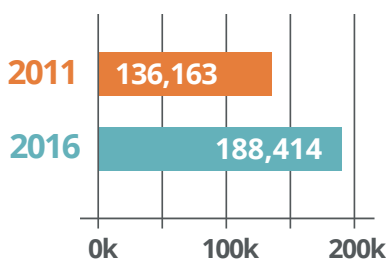
ONLY 30%

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

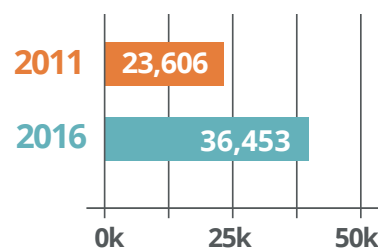
30%

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

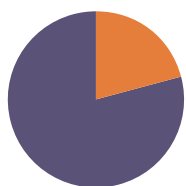
Degrees Awarded



38% increase in total bachelor's degrees awarded in engineering and computer science.



54% increase in bachelor's degrees awarded in engineering and computer science to women.



21.3% of bachelor's degrees awarded to **women in engineering and computer science.**

5.6% of bachelor's degrees in engineering awarded to **women of color.**



IN THE WORKFORCE

ONLY 13% of engineers are women.

ONLY 26% of computer scientists are women.

Female engineers
earn

**90
CENTS**

for every

\$1

male
engineers
earn.

**ONLY
17%**

of tenured/tenure-track faculty
in engineering are women.



**TOP
10**

Engineering Degrees:
Female | **2016-17**

1 Mechanical

6 Industrial/Manufacturing/Systems

2 Chemical

7 Electrical

3 Civil

8 Computer Engineering

4 Biomedical

9 Environmental

5 Computer Science

10 Metallurgical & Materials

¹National Science Board. *Science and Engineering Indicators 2016*, Appendix Table 2-16.

²Chen, X. (2013). *STEM attrition: College students' paths into and out of STEM fields*.

³Corbett, C., & Hill, C. (2015). *Solving the Equation: The Variables for Women's Success in Engineering and Computing*. Washington, DC: American Association of University Women.

⁴Fouad, N. A., Singh, R., Fitzpatrick, M. E., & Liu, J. P. (2012). *Stemming the tide: Why women leave engineering*. University of Wisconsin, Milwaukee.

⁵U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, *Digest of Education Statistics 2017*, Tables 325.35 and 325.45.

⁶U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, *Digest of Education Statistics 2017*, Tables 325.35 and 325.45.

⁷Yoder B. L. (2018). *Engineering by the numbers*. American Society for Engineering Education.

⁸<https://www.nsf.gov/statistics/2017/nsf17310/digest/fod-wmreg/>

⁹<https://www.bls.gov/cps/cpsaat11.htm>.

¹⁰<https://www.bls.gov/cps/cpsaat11.htm>.

¹¹2016 American community survey (5-yr estimates): Tables B24122 and B24123.