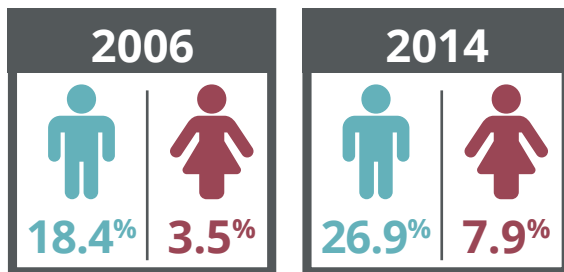


**FRESHMEN INTENTIONS
TO MAJOR IN ENGINEERING,
MATH, STATISTICS, OR
COMPUTER SCIENCE:**



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.

**OF THE
30%**

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



Degrees Awarded

38% increase in bachelor's
degrees awarded in engineering
and computer science from
2011 (136,163) to **2016 (188,414)**.

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

54% increase in bachelor's
degrees awarded in engineering
and computer science to women
from **2011 (23,606)** to **2016 (36,453)**.

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 **10% LESS** than male engineers.

61% of women report that they have to **prove themselves repeatedly** to get the same level of respect and recognition as their colleagues.



**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.

¹²Williams, J. C., Li, S., Rincon, R., and Finn, P. (2016). *Climate control: Gender and racial bias in engineering?*