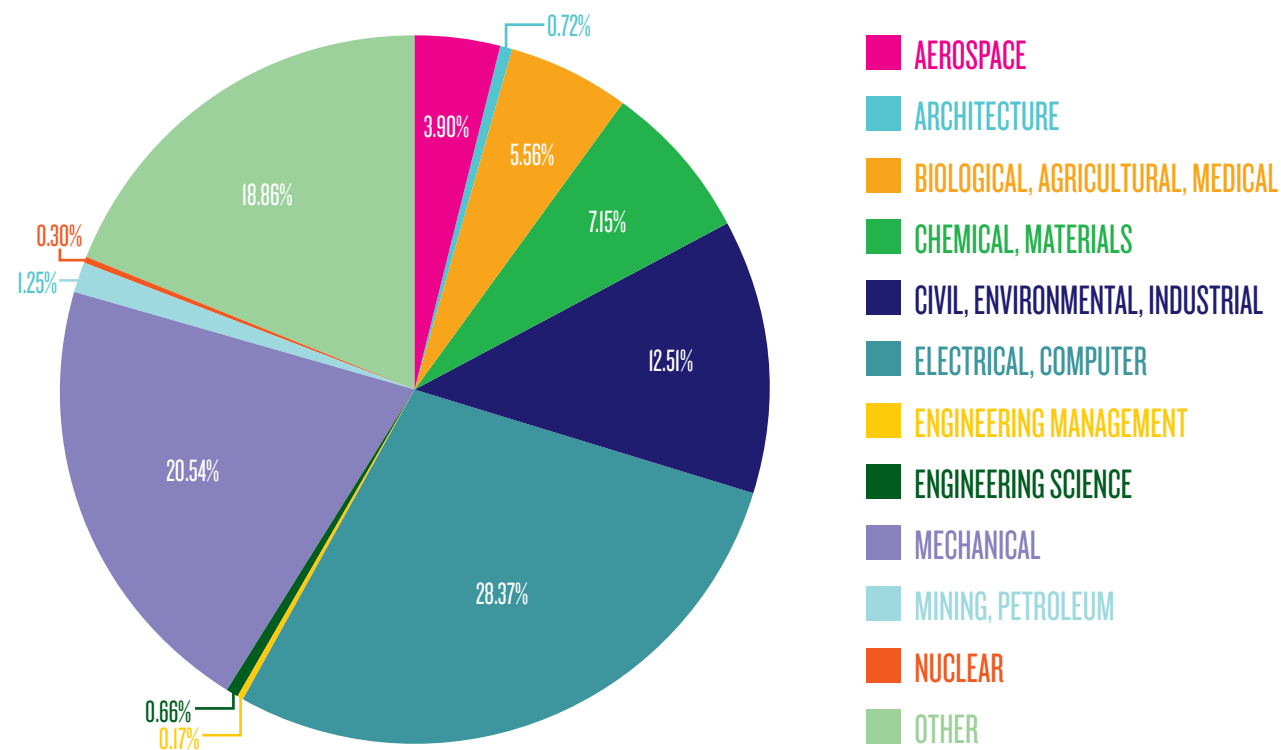


CHOICES OF MAJOR UNLIKELY TO CHANGE MUCH BY 2028

Assuming that engineering students in different racial and ethnic groups choose their majors in future years the way they do now, the proportion of students in various disciplines is unlikely to change significantly in the coming decade. This databyte, the second in a series that explores future undergraduate engineering trends, draws on data from ASEE's 2016 *Profiles* survey and from a recent study that projects future cohorts of high school graduates (Projections of High School Graduates by the Western Interstate Commission for Higher Education—Graduate Projection, December 2016¹). To arrive at the projection shown in the accompanying graphics, we calculated the number and percentage of students entering different engineering disciplines during their freshman year in 2016 by race and ethnicity, and applied those percentages to projected 2027 high school graduates by race and ethnicity. The results show the percentages of freshman engineering students enrolling in different engineering disciplines in 2028. It's quite possible that new majors, such as data science, will emerge and be widely adopted by engineering schools. In that case, the proportions may shift.

FIGURE 1. ENGINEERING ENROLLMENT BY DISCIPLINES GRAND TOTAL 2006–2016²



¹ <https://knocking.squarespace.com/s/All-Projections-Published-Table-Format-j2f9.xlsx>

Complete Engineering Discipline Categories:	Environmental	Engr. Science and Engr. Physics
Aerospace	Industrial/Manufacturing/Systems	Mechanical
Architectural	Computer	Metallurgical and Materials
Biological and Agricultural	Computer Science (Inside Engineering)	Mining
Biomedical	Computer Science (Outside Engineering)	Nuclear
Chemical	Electrical	Other
Civil	Electrical/Computer	Petroleum
Civil/Environmental	Engineering Management	

FIGURE 2. ENGINEERING ENROLLMENT BY DISCIPLINE 2016, 2028

