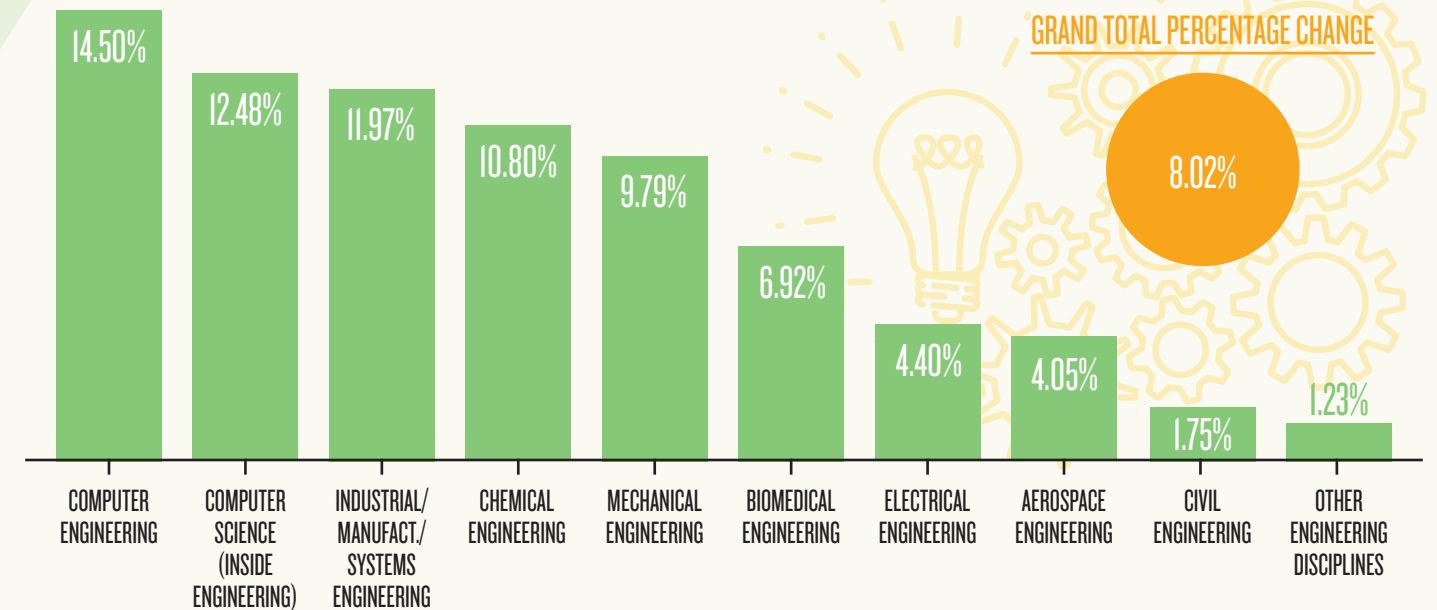


GROWTH IN COMPUTER SCIENCE AND ENGINEERING

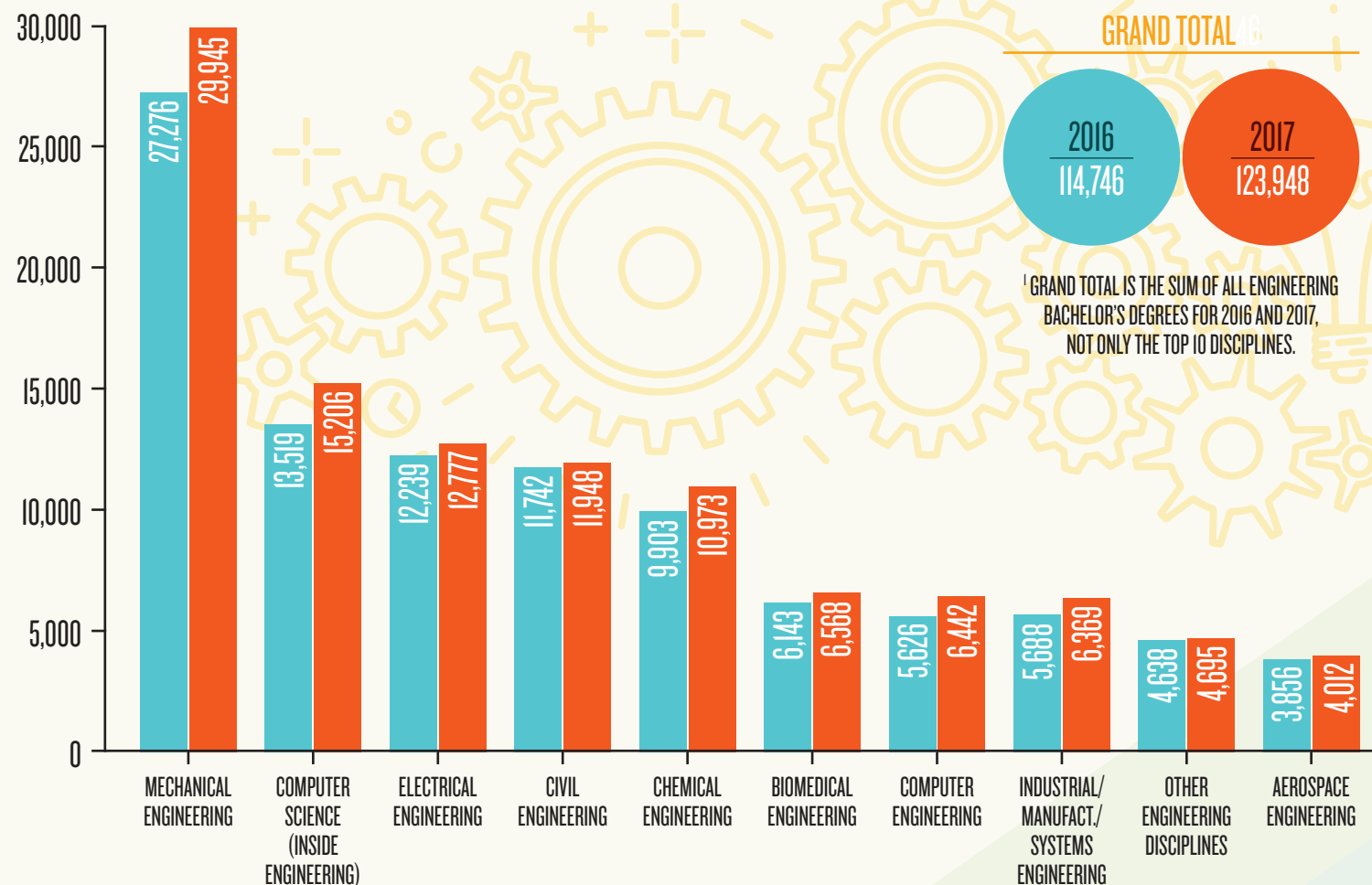
Computer engineering showed the highest percentage increase in bachelor's degrees between 2016 and 2017, followed by computer science taught inside engineering schools. While both these fields are growing in popularity, they remain far behind mechanical engineering in the total number of graduates, as shown in the accompanying graphic. Also gaining strength in the number of bachelor's degrees awarded are industrial/manufacturing/systems engineering and chemical engineering. ASEE's latest projections indicate that the top three disciplines—mechanical engineering, computer science (inside engineering), and electrical engineering—may decrease slightly in the near future.

Source: 2017 survey for ASEE's Profiles of Engineering and Engineering Technology Colleges

TOP 10 ENGINEERING DISCIPLINES RANKED BY PERCENTAGE CHANGE, 2016–2017



TOP 10 ENGINEERING DISCIPLINES BY TOTAL NUMBER OF ENGINEERING BACHELOR DEGREES, 2016–2017¹



TOTAL NUMBER OF ENGINEERING BACHELOR DEGREES BY ENGINEERING DISCIPLINES AND PERCENTAGE CHANGE, 2016–2017

	2016	2017	PERCENTAGE CHANGE	COMPOSITION PERCENT CHANGE
GRAND TOTAL	114,746	123,948	8.02%	-
MECHANICAL ENGINEERING	27,276	29,945	9.79%	0.39%
COMPUTER SCIENCE (INSIDE ENGINEERING)	13,519	15,206	12.48%	0.49%
ELECTRICAL ENGINEERING	12,239	12,777	4.40%	-0.36%
CIVIL ENGINEERING	11,742	11,948	1.75%	-0.59%
CHEMICAL ENGINEERING	9,903	10,973	10.80%	0.22%
BIOMEDICAL ENGINEERING	6,143	6,568	6.92%	-0.05%
COMPUTER ENGINEERING	5,626	6,442	14.50%	0.29%
INDUSTRIAL/MANUFACTURING/SYSTEMS ENGINEERING	5,688	6,369	11.97%	0.18%
OTHER ENGINEERING DISCIPLINES	4,638	4,695	1.23%	-0.25%
AEROSPACE ENGINEERING	3,856	4,012	4.05%	-0.12%
ELECTRICAL/COMPUTER ENGINEERING	2,902	3,269	12.65%	0.11%
METALLURGICAL AND MATERIALS ENGINEERING	1,863	2,033	9.13%	0.02%
PETROLEUM ENGINEERING	1,714	1,751	2.16%	-0.08%
ENGINEERING (GENERAL)	1,609	1,585	-1.49%	-0.12%
BIOLOGICAL ENGINEERING AND AGRICULTURAL ENGR	1,160	1,349	16.29%	0.08%
ENVIRONMENTAL ENGINEERING	1,288	1,301	1.01%	-0.07%
CIVIL/ENVIRONMENTAL ENGINEERING	924	1,006	8.87%	0.01%
ENGINEERING SCIENCE AND ENGINEERING PHYSICS	685	690	0.73%	-0.04%
ARCHITECTURAL ENGINEERING	620	614	-0.97%	-0.04%
NUCLEAR ENGINEERING	525	566	7.81%	0.00%
ENGINEERING MANAGEMENT	506	554	9.49%	0.01%
MINING ENGINEERING	320	295	-7.81%	-0.04%

CORRECTION: October's Databytes inadvertently misplaced a pair of numbers, resulting in an error. ASEE members can find a corrected Databytes in the online October Prism pdf: <https://www.asee.org/papers-and-publications/publications/prism/prism-online-pdfs>