

Engineering

This group includes the following majors:

- Aerospace Engineering
- Architectural Engineering
- Architecture
- Biological Engineering
- Biomedical Engineering
- Chemical Engineering
- Electrical Engineering
- Electrical Engineering Technology
- Engineering and Industrial Management
- Engineering Mechanics Physics and Science
- Engineering Technologies
- Environmental Engineering
- General Engineering
- Geological and Geophysical Engineering
- Industrial and Manufacturing Engineering
- Industrial Production Technologies
- Materials Engineering and Materials Science
- Mechanical Engineering
- Mechanical Engineering Related Technologies
- Metallurgical Engineering
- Miscellaneous Engineering
- Miscellaneous Engineering Technologies
- Naval Architecture and Marine Engineering
- Nuclear Engineering
- Petroleum Engineering

Engineering makes up 8.2 percent of all majors. Median earnings for those with a Bachelor's degree who majored in Engineering are \$75,000.¹ The gender composition is heavily skewed, as 84 percent of engineering majors are men and 16 percent are women. However, women make significantly less than men, earnings \$62,000 (\$17,000 less than median earnings for men). The racial makeup of these majors, on average, is 71 percent White, 14 percent Asian, 5 percent African-American, 9 percent Hispanic, and 1 percent Other Races.² Earnings for Asians (\$72,000), African-Americans (\$60,000), Hispanics (\$56,000), and Other Races (\$57,000) are significantly less than the \$80,000 median earnings of Whites.

Earnings in Engineering can vary widely, with the 25th percentile earning \$53,000 and the 75th percentile earning \$102,000 (a difference of \$49,000). The major with the highest median earnings is Petroleum Engineering and the major with the lowest median earnings is Biological Engineering.

About 37 percent of people with these majors obtain a graduate degree and, as a result, get an average earnings boost of 32 percent.

Of people who majored in Engineering, 32 percent work in Engineering, 22 percent in Management, 9 percent in Computers, 7 percent in Sales, and 4 percent in Architecture occupations. By industry, 32 percent work in Manufacturing, 22 percent in Professional and Business Services, 9 percent in Construction, and 6 percent in Public Administration.

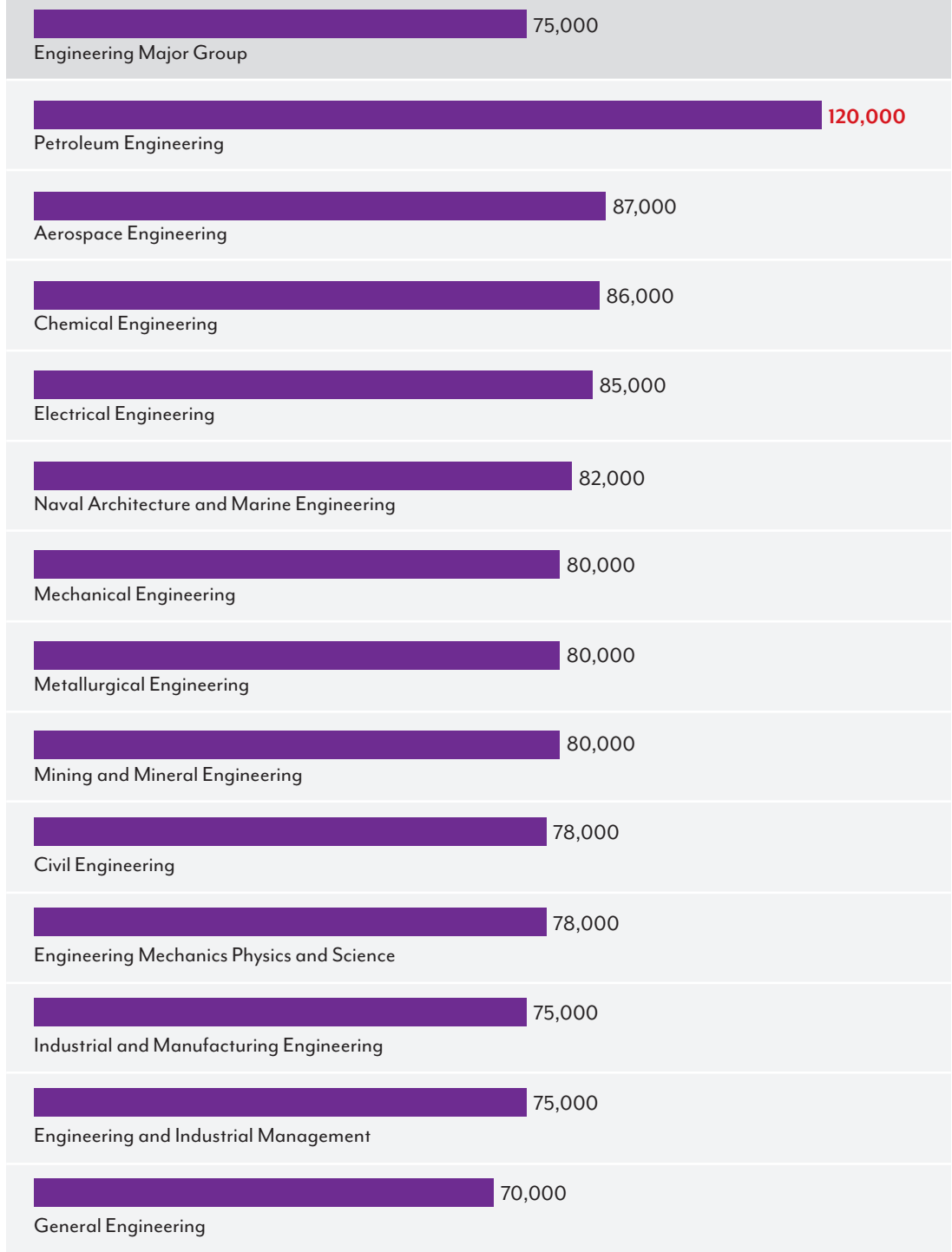
Of Engineering majors who are in the labor force and employed, 93 percent work full-time. About 6 percent are unemployed.

Median earnings for those with a Bachelor's degree who majored in Engineering are \$75,000.

¹ All of the earnings data presented here is on full-time, full-year workers with a Bachelor's degree only.

² Due to rounding, these may not add to 100 percent.

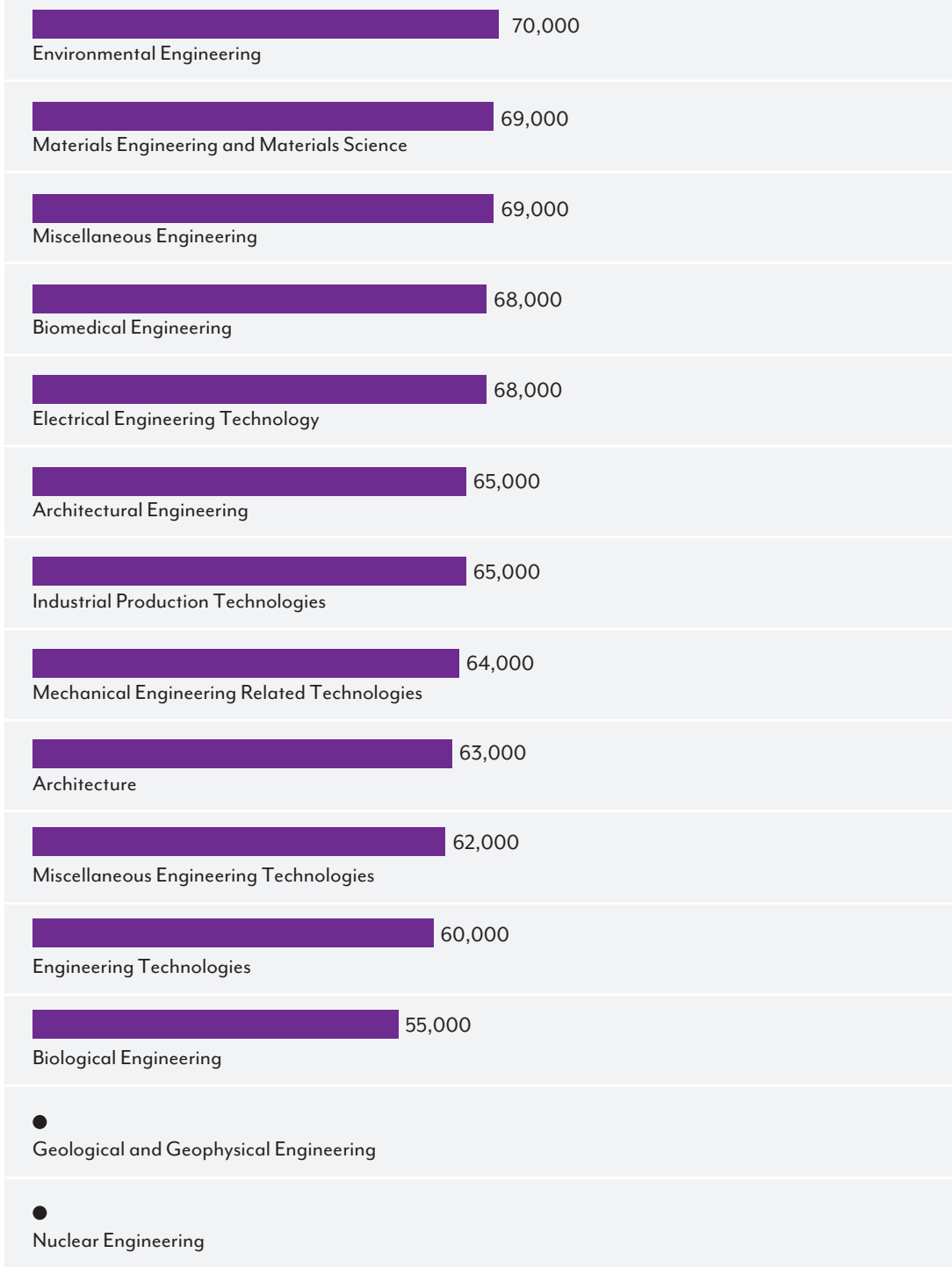
MEDIAN EARNINGS OF ENGINEERING MAJOR GROUP*



* Full-time, full-year workers with a terminal Bachelor's.

• Sample size was too small to be statistically valid.

MEDIAN EARNINGS OF ENGINEERING MAJOR GROUP* (Continued)



* Full-time, full-year workers with a terminal Bachelor's.

● Sample size was too small to be statistically valid.

ALL

Engineering
Major Group

Aerospace
Engineering

Architectural
Engineering

Architecture

Biological
Engineering

Biomedical
Engineering

Chemical
Engineering

Civil Engineering

Electrical
Engineering

Electrical
Engineering
Technology

Engineering
and Industrial
Management

Engineering
Mechanics Physics
and Science

POPULARITY OF MAJORS[†]

Total Bachelor's	2,786,488	58,041	14,249	264,402	29,054	15,496	153,537	285,331	578,380	78,067	38,164	15,897
% of Major Group	100	2	1	9	1	1	6	10	21	3	1	1

MEDIAN EARNINGS BY MAJOR*

Median earnings	75,000	87,000	65,000	63,000	55,000	68,000	86,000	78,000	85,000	68,000	75,000	78,000
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EARNINGS AT THE 25TH AND 75TH PERCENTILE*

Earnings at the 25th percentile	53,000	60,000	50,000	45,000	35,000	50,000	60,000	57,000	60,000	48,000	52,000	42,000
Earnings at the 75th percentile	102,000	115,000	83,000	87,000	84,000	100,000	120,000	103,000	110,000	90,000	120,000	110,000
Difference	49,000	55,000	33,000	42,000	49,000	50,000	60,000	46,000	50,000	42,000	68,000	68,000

PERCENT OBTAINING A GRADUATE DEGREE

Did not obtain graduate degree (%)	63	59	72	68	62	50	55	65	58	80	72	53
Obtain graduate degree (%)	37	41	28	32	38	50	45	35	42	20	28	47

EARNINGS BOOST FROM OBTAINING A GRADUATE DEGREE

% Earnings Boost from Graduate Degree	32	28	•	19	24	48	23	25	30	23	17	40
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WORK STATUS*

Full-time (%)	93	90	88	88	87	89	93	93	93	94	89	96
Part-time (%)	7	10	12	12	13	11	7	7	7	6	11	4

PERCENT EMPLOYED**

Employed (%)	94	95	94	91	96	89	95	95	94	93	91	95
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[†] The ACS data are best used to discuss distributional characteristics of the underlying population. However, we also include the number of degree holders to provide the reader with an 'order of magnitude' sense of the number of people with this major.

* Full-time, full-year workers with a terminal Bachelor's.

• Sample size was too small to be statistically valid.

** Of people in the labor force.

Engineering Technologies	Environmental Engineering	General Engineering	Geological and Geophysical Engineering	Industrial and Manufacturing Engineering	Industrial Production Technologies	Materials Engineering and Materials Science	Mechanical Engineering	Mechanical Engineering Related Technologies	Metallurgical Engineering	Mining and Mineral Engineering	Miscellaneous Engineering	Miscellaneous Engineering Technologies	Naval Architecture and Marine Engineering	Nuclear Engineering	Petroleum Engineering
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POPULARITY OF MAJORS†

29,471	11,843	362,948	5,556	109,930	73,740	24,444	458,432	25,925	9,041	7,085	47,772	58,629	10,931	5,482	14,641
1	<0.5	13	<0.5	4	3	1	16	1	<0.5	<0.5	2	2	<0.5	<0.5	1

MEDIAN EARNINGS BY MAJOR*

60,000	70,000	70,000	•	75,000	65,000	69,000	80,000	64,000	80,000	80,000	69,000	62,000	82,000	•	120,000
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EARNINGS AT THE 25TH AND 75TH PERCENTILE*

44,000	51,000	50,000	•	55,000	48,000	48,000	59,000	47,000	50,000	52,000	45,000	44,000	44,000	•	82,000
88,000	93,000	100,000	•	101,000	90,000	96,000	105,000	90,000	106,000	125,000	91,000	87,000	120,000	•	189,000
44,000	42,000	50,000	•	46,000	42,000	48,000	46,000	43,000	56,000	73,000	46,000	43,000	76,000	•	107,000

PERCENT OBTAINING A GRADUATE DEGREE

79	55	68	59	60	81	52	62	80	49	63	67	84	61	36	67
21	45	32	41	40	19	48	38	20	51	37	33	16	39	64	33

EARNINGS BOOST FROM OBTAINING A GRADUATE DEGREE

35	22	41	•	24	32	39	28	•	33	•	56	18	•	•	7
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WORK STATUS*

94	94	94	97	93	94	89	95	91	94	99	94	93	95	96	95
6	6	6	3	7	6	11	5	9	6	1	6	7	5	4	5

PERCENT EMPLOYED**

96	97	95	100	95	94	92	95	95	99	97	95	94	97	89	97
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† The ACS data are best used to discuss distributional characteristics of the underlying population. However, we also include the number of degree holders to provide the reader with an 'order of magnitude' sense of the number of people with this major.

* Full-time, full-year workers with a terminal Bachelor's.

• Sample size was too small to be statistically valid.

** Of people in the labor force.

GENDER

GENDER COMPOSITION OF MAJORS

	Engineering Major Group	Aerospace Engineering	Architectural Engineering	Architecture	Biological Engineering	Biomedical Engineering	Chemical Engineering	Civil Engineering	Electrical Engineering	Electrical Engineering Technology	Engineering and Industrial Management	Engineering Mechanics Physics and Science
Percent Female	16	12	19	31	26	45	28	16	11	10	17	17
Percent Male	84	88	81	69	74	55	72	84	89	90	83	83

EARNINGS BY GENDER*

Female Median Earnings	62,000	•	•	55,000	•	•	72,000	62,000	70,000	•	•	•
Male Median Earnings	79,000	90,000	70,000	65,000	58,000	79,000	92,000	80,000	86,000	70,000	82,000	73,000
Difference	17,000	•	•	10,000	•	•	20,000	18,000	16,000	•	•	•

* Full-time, full-year workers with a terminal Bachelor's.

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RACE AND ETHNICITY

RACIAL AND ETHNIC COMPOSITION OF MAJORS^Δ

	Engineering Major Group	Aerospace Engineering	Architectural Engineering	Architecture	Biological Engineering	Biomedical Engineering	Chemical Engineering	Civil Engineering	Electrical Engineering	Electrical Engineering Technology	Engineering and Industrial Management	Engineering Mechanics Physics and Science
% White	71	79	77	75	62	68	71	76	64	62	89	79
% African-American	5	3	7	4	3	<0.5	5	3	6	11	5	5
% Hispanic	9	6	7	11	22	5	8	8	7	6	2	8
% Asian	14	12	8	10	12	26	15	12	22	18	4	7
% Other Races and Ethnicities	1	<0.5	<0.5	<0.5	<0.5	1	<0.5	1	1	2	<0.5	<0.5

^Δ Due to rounding, these may not add to 100 percent.

Engineering Technologies	Environmental Engineering	General Engineering	Geological and Geophysical Engineering	Industrial and Manufacturing Engineering	Industrial Production Technologies	Materials Engineering and Materials Science	Mechanical Engineering	Mechanical Engineering Related Technologies	Metallurgical Engineering	Mining and Mineral Engineering	Miscellaneous Engineering	Miscellaneous Engineering Technologies	Naval Architecture and Marine Engineering	Nuclear Engineering	Petroleum Engineering
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GENDER COMPOSITION OF MAJORS

13	33	15	27	21	9	29	10	6	17	10	21	20	3	9	13
87	67	85	73	79	91	71	90	94	83	90	79	80	97	91	87

EARNINGS BY GENDER*

•	•	60,000	•	67,000	•	•	70,000	•	•	•	55,000	53,000	•	•	•
60,000	80,000	72,000	•	80,000	65,000	74,000	80,000	63,000	80,000	78,000	70,000	65,000	82,000	•	120,000
•	•	12,000	•	13,000	•	•	10,000	•	•	•	15,000	12,000	•	•	•

* Full-time, full-year workers with a terminal Bachelor's.

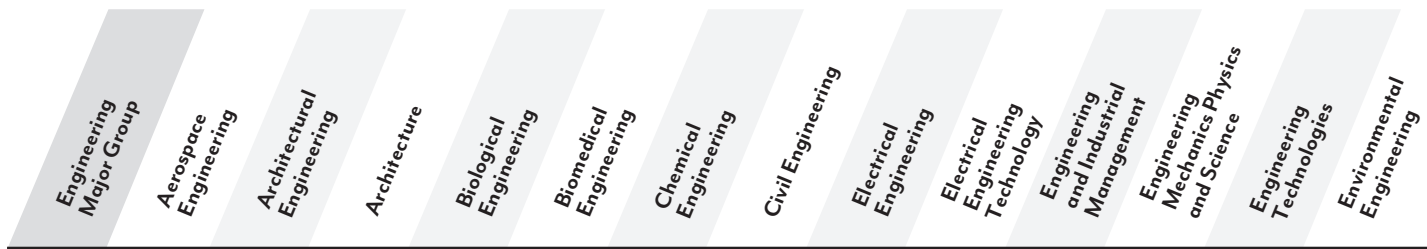
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Engineering Technologies	Environmental Engineering	General Engineering	Geological and Geophysical Engineering	Industrial and Manufacturing Engineering	Industrial Production Technologies	Materials Engineering and Materials Science	Mechanical Engineering	Mechanical Engineering Related Technologies	Metallurgical Engineering	Mining and Mineral Engineering	Miscellaneous Engineering	Miscellaneous Engineering Technologies	Naval Architecture and Marine Engineering	Nuclear Engineering	Petroleum Engineering
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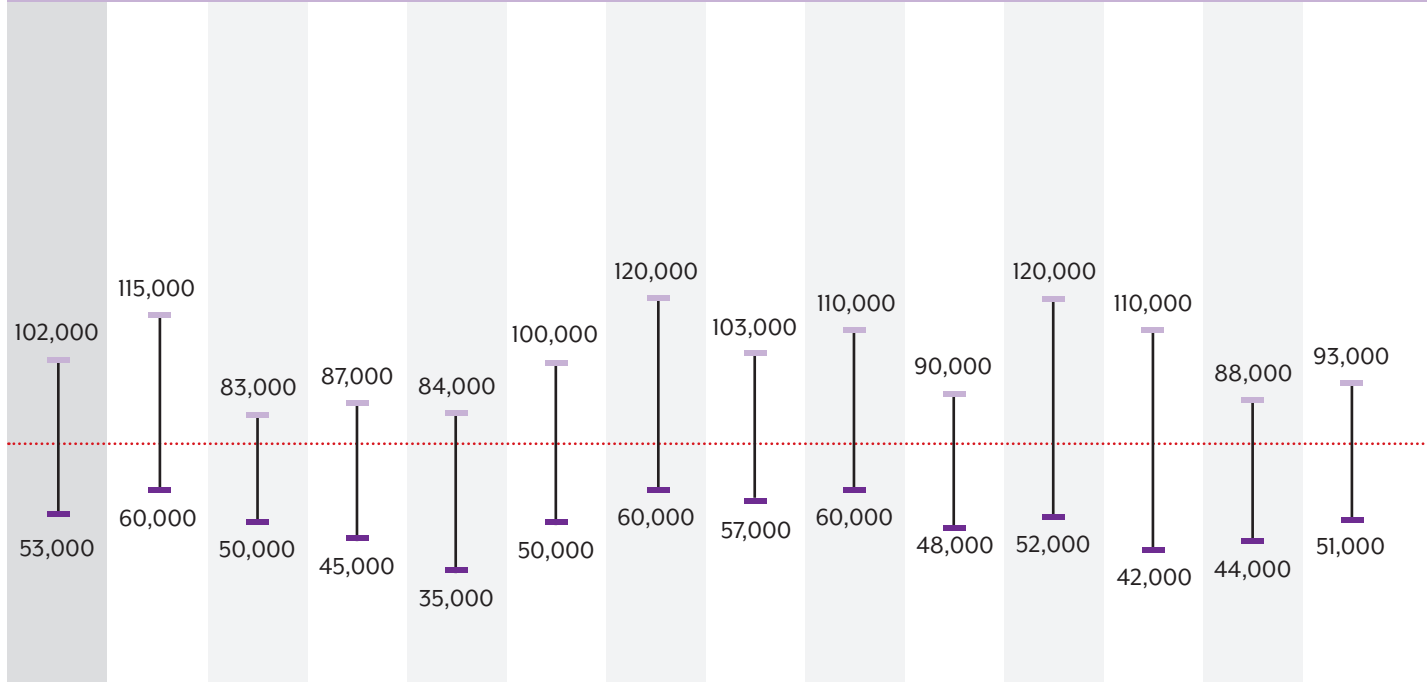
RACIAL AND ETHNIC COMPOSITION OF MAJORS^Δ

75	85	61	83	70	82	79	76	85	79	88	81	75	81	91	83
11	5	7	2	5	9	3	3	4	2	2	4	12	<0.5	4	1
9	4	13	6	14	5	5	7	6	5	2	7	7	3	4	12
5	6	18	9	9	4	13	13	5	13	8	7	6	16	1	4
<0.5	<0.5	1	<0.5	1	1	<0.5	1	<0.5	1	<0.5	<0.5	1	<0.5	<0.5	<0.5

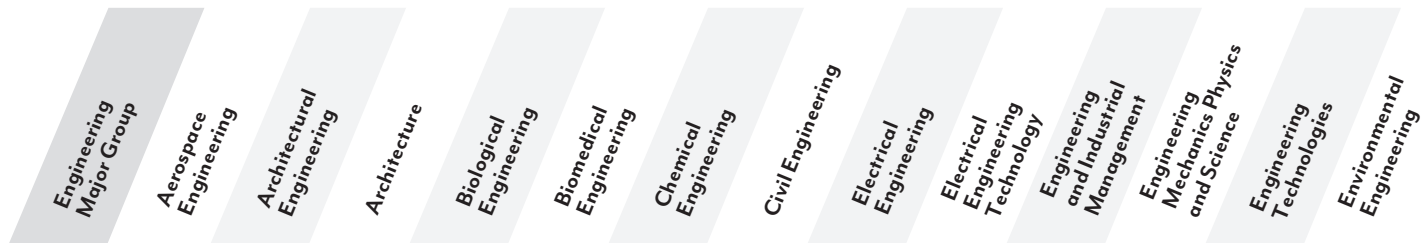
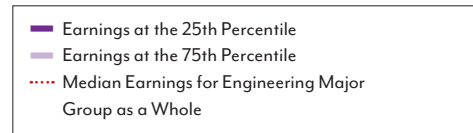
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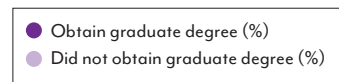
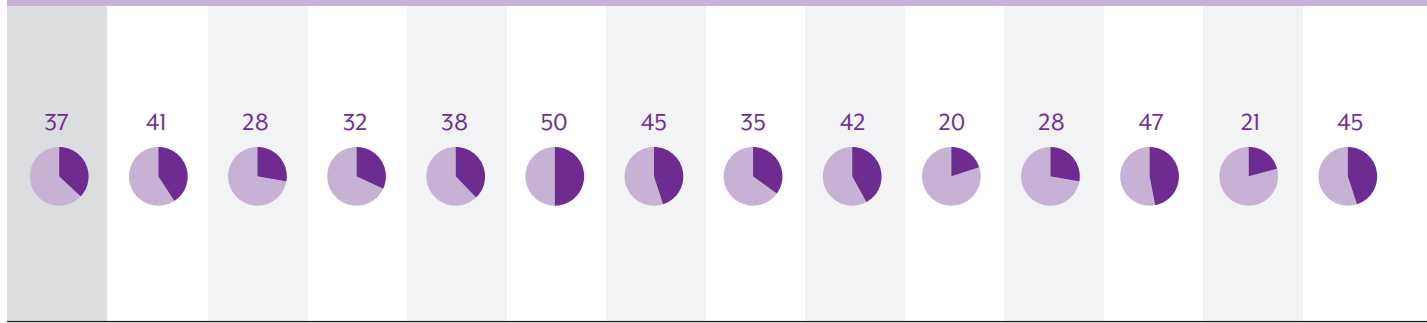
EARNINGS AT THE 25TH AND 75TH PERCENTILE*



* Full-time, full-year workers with a terminal Bachelor's.
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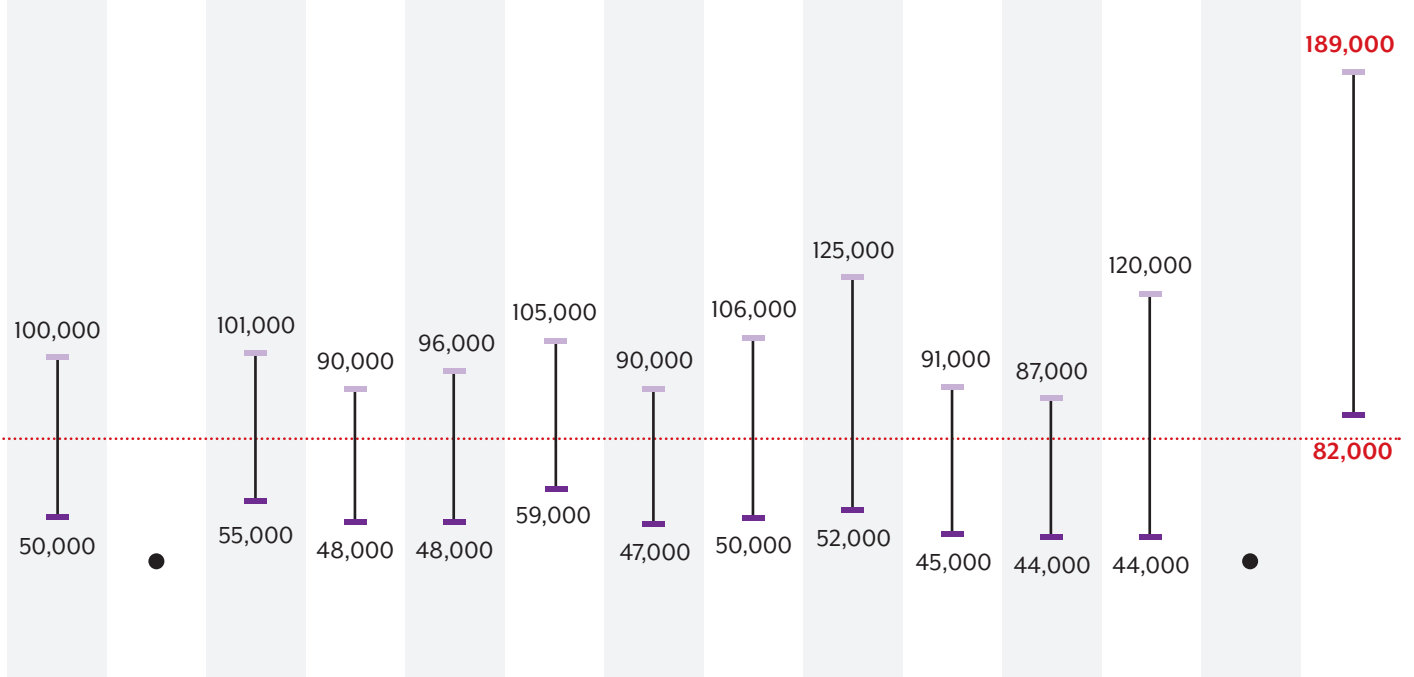


PERCENT OBTAINING A GRADUATE DEGREE



General Engineering
 Geographical and Geophysical Engineering
 Industrial and Manufacturing Engineering
 Industrial Production Technologies
 Materials Engineering and Materials Science
 Mechanical Engineering
 Mechanical Engineering Related Technologies
 Metallurgical Engineering
 Mining and Mineral Engineering
 Miscellaneous Engineering
 Miscellaneous Engineering Technologies
 Naval Architecture and Marine Engineering
 Nuclear Engineering
 Petroleum Engineering

EARNINGS AT THE 25TH AND 75TH PERCENTILE*

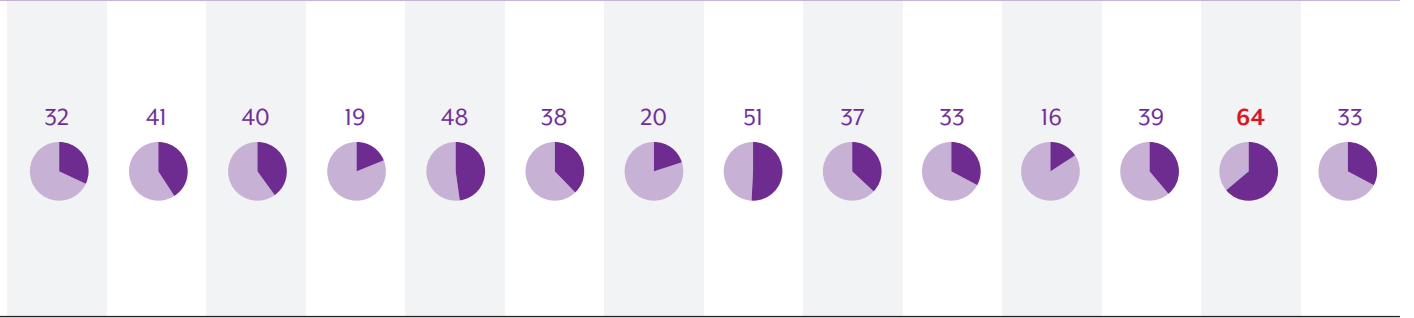


* Full-time, full-year workers with a terminal Bachelor's.
 • Sample size was too small to be statistically valid.

- Earnings at the 25th Percentile
- Earnings at the 75th Percentile
- ⋯ Median Earnings for Engineering Major Group as a Whole

General Engineering
 Geographical and Geophysical Engineering
 Industrial and Manufacturing Engineering
 Industrial Production Technologies
 Materials Engineering and Materials Science
 Mechanical Engineering
 Mechanical Engineering Related Technologies
 Metallurgical Engineering
 Mining and Mineral Engineering
 Miscellaneous Engineering
 Miscellaneous Engineering Technologies
 Naval Architecture and Marine Engineering
 Nuclear Engineering
 Petroleum Engineering

PERCENT OBTAINING A GRADUATE DEGREE



- Obtain graduate degree (%)
- Did not obtain graduate degree (%)

WHERE ENGINEERING MAJORS END UP BY OCCUPATION*

	1st Occupation (%)	2nd Occupation (%)	3rd Occupation (%)	4th Occupation (%)	5th Occupation (%)
Engineering Major Group	ENGR (32)	MGMT (22)	COMP (9)	SALES (7)	ARCH (4)
Aerospace Engineering	ENGR (34)	MGMT (16)	TRAN (15)	COMP (10)	SALES (5)
Architectural Engineering	ENGR (39)	MGMT (18)	CON (8)	ARTS (8)	BUS (6)
Architecture	ARCH (36)	MGMT (22)	ARTS (7)	SALES (7)	OFF (4)
Biological Engineering	ENGR (21)	MGMT (19)	OFF (7)	SALES (7)	BLDG (6)
Biomedical Engineering	ENGR (23)	MGMT (20)	SALES (12)	BUS (7)	COMP (7)
Chemical Engineering	ENGR (35)	MGMT (26)	SALES (7)	COMP (6)	PROD (4)
Civil Engineering	ENGR (45)	MGMT (26)	CON (5)	OFF (4)	SALES (4)
Electrical Engineering	ENGR (37)	COMP (18)	MGMT (17)	SALES (6)	INST (3)
Electrical Engineering Technology	ENGR (24)	MGMT (16)	COMP (16)	INST (9)	SALES (8)
Engineering and Industrial Management	MGMT (36)	SALES (17)	ENGR (9)	BUS (7)	COMP (6)
Engineering Mechanics Physics and Science	MGMT (19)	ENGR (19)	COMP (15)	INST (9)	TRAN (8)
Engineering Technologies	MGMT (24)	COMP (17)	ENGR (17)	OFF (5)	PROD (5)
Environmental Engineering	ENGR (48)	MGMT (17)	PROD (9)	SALES (7)	BUS (3)
General Engineering	ENGR (31)	MGMT (18)	COMP (10)	SALES (8)	PROD (5)
Geological and Geophysical Engineering	ENGR (28)	LS (19)	MGMT (18)	COMP (6)	BLDG (4)

* Full-time, full-year workers with a terminal Bachelor's.

Occupation Abbreviations:

Architecture = ARCH
 Arts = ARTS
 Blue Collar = BC
 Building = BLDG
 Business = BUS
 Community Service = COMM
 Computer Services = COMP
 Construction = CON
 Education = EDU
 Engineering = ENGR
 Finance = FIN
 Food Service = FOOD

Health Professionals = HLTH PROF
 Health Support = HLTH SUP
 Installation = INST
 Legal = LGL
 Life Science = LS
 Management = MGMT
 Office = OFF
 Personal Service = PERS
 Production = PROD
 Protective Services = PROT
 Sales = SALES
 Social Science = SS
 Transportation = TRAN

WHERE ENGINEERING MAJORS END UP BY OCCUPATION* (Continued)

	1st Occupation (%)	2nd Occupation (%)	3rd Occupation (%)	4th Occupation (%)	5th Occupation (%)
Industrial and Manufacturing Engineering	MGMT (31)	ENGR (28)	SALES (8)	COMP (6)	BUS (5)
Industrial Production Technologies	MGMT (24)	ENGR (16)	SALES (10)	OFF (8)	PROD (8)
Materials Engineering and Materials Science	MGMT (29)	ENGR (28)	SALES (17)	COMP (6)	PROD (4)
Mechanical Engineering	ENGR (44)	MGMT (24)	SALES (7)	COMP (6)	PROD (4)
Mechanical Engineering Related Technologies	ENGR (29)	MGMT (21)	SALES (11)	INST (8)	PROD (7)
Metallurgical Engineering	ENGR (32)	MGMT (29)	SALES (11)	COMP (8)	OFF (5)
Mining and Mineral Engineering	MGMT (31)	ENGR (28)	HLTH PROF (7)	OFF (7)	SALES (6)
Miscellaneous Engineering	MGMT (28)	ENGR (23)	CON (8)	OFF (7)	SALES (6)
Miscellaneous Engineering Technologies	MGMT (27)	COMP (14)	ENGR (11)	SALES (8)	OFF (6)
Naval Architecture and Marine Engineering	ENGR (31)	MGMT (22)	INST (12)	OFF (9)	SALES (7)
Nuclear Engineering	ENGR (42)	MGMT (22)	BUS (8)	COMP (7)	HLTH PROF (7)
Petroleum Engineering	ENGR (45)	MGMT (32)	SALES (6)	OFF (5)	CON (4)

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 Social Science = SS
 Transportation = TRAN

WHERE ENGINEERING MAJORS END UP BY INDUSTRY*

	1st Industry (%)	2nd Industry (%)	3rd Industry (%)	4th Industry (%)	5th Industry (%)
Engineering Major Group	MAN-d (25)	PROF (22)	CON (9)	MAN-nd (7)	PUB (6)
Aerospace Engineering	MAN-d (33)	TRAN (18)	PROF (17)	PUB (9)	RETL (4)
Architectural Engineering	PROF (38)	CON (23)	MAN-d (10)	FS (5)	PUB (5)
Architecture	PROF (47)	CON (11)	PUB (7)	MAN-d (4)	RETL (4)
Biological Engineering	MAN-d (16)	CON (11)	PROF (10)	MAN-nd (9)	PUB (9)
Biomedical Engineering	PROF (28)	MAN-d (19)	HS (16)	EDU (8)	INFO (7)
Chemical Engineering	MAN-nd (34)	PROF (15)	MAN-d (14)	PUB (6)	FIN (4)
Civil Engineering	PROF (34)	CON (27)	PUB (11)	MAN-d (6)	UTIL (4)
Electrical Engineering	MAN-d (33)	PROF (21)	INFO (6)	UTIL (5)	PUB (5)
Electrical Engineering Technology	MAN-d (30)	PROF (13)	TRAN (7)	RETL (6)	INFO (6)
Engineering and Industrial Management	MAN-d (27)	RETL (10)	PROF (9)	MAN-nd (7)	CON (6)
Engineering Mechanics Physics and Science	MAN-d (21)	PROF (13)	PUB (8)	FIN (7)	ADMN (7)
Engineering Technologies	MAN-d (18)	PROF (15)	PUB (13)	CON (11)	MAN-nd (7)
Environmental Engineering	PROF (45)	MAN-d (14)	MAN-nd (10)	PUB (9)	UTIL (5)
General Engineering	MAN-d (24)	PROF (21)	CON (9)	MAN-nd (5)	RETL (5)
Geological and Geophysical Engineering	PROF (24%)	Mining (22)	FIN (11)	PUB (10)	EDU (9)

* Full-time, full-year workers with a terminal Bachelor's.

Industry Abbreviations:

Administrative Services = ADMN
 Agriculture = AG
 Arts = ARTS
 Construction = CON
 Education Services = EDU
 Financial Services = FIN
 Food Service = FS
 Health Services = HS
 Information = INFO
 Management Services = MGMT
 Manufacturing (durable) = MAN-d
 Manufacturing (non-durable) = MAN-nd

Mining = MNG
 Other Service = OS
 Professional Services = PROF
 Public Administration = PUB
 Real Estate = RE
 Retail Trade = RETL
 Sales = SALES
 Social Science = SS
 Transportation = TRAN
 Utilities = UTIL
 Wholesale Trade (durable) = WHLS-d
 Wholesale Trade (non-durable) = WHLS-nd

WHERE ENGINEERING MAJORS END UP BY INDUSTRY*

	1st Industry (%)	2nd Industry (%)	3rd Industry (%)	4th Industry (%)	5th Industry (%)
Industrial and Manufacturing Engineering	MAN-d (36)	PROF (11)	MAN-nd (10)	FIN (6)	CON (5)
Industrial Production Technologies	MAN-d (32)	MAN-nd (10)	PROF (9)	RETL (6)	CON (5)
Materials Engineering and Materials Science	MAN-d (41)	MAN-nd (16)	PROF (8)	RETL (7)	FIN (5)
Mechanical Engineering	MAN-d (40)	PROF (18)	MAN-nd (7)	UTIL (5)	CON (5)
Mechanical Engineering Related Technologies	MAN-d (33)	PROF (13)	TRAN (10)	RETL (8)	CON (6)
Metallurgical Engineering	MAN-d (46)	PROF (13)	WHLS-nd (11)	MAN-nd (4)	RE (4)
MNG and Mineral Engineering	MNG (27)	PROF (22)	PUB (12)	MAN-nd (7)	HS (7)
Miscellaneous Engineering	CON (30)	MAN-d (14)	MAN-nd (11)	PROF (9)	PUB (5)
Miscellaneous Engineering Technologies	PROF (16)	MAN-d (14)	CON (13)	MAN-nd (8)	FIN (8)
Naval Architecture and Marine Engineering	PROF (23)	MAN-d (14)	TRAN (13)	UTIL (10)	CON (5)
Nuclear Engineering	UTIL (46)	PROF (16)	MAN-d (15)	PUB (9)	HS (6)
Petroleum Engineering	MNG (44)	MAN-nd (12)	PROF (10)	WHLS-d (8)	RE (5)

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