FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
Aerospace	Aerospace engineers design, construct, test, and supervise the manufacturing of aircraft, spacecraft, and missiles. Those who work with aircraft are called aeronautical engineers, and those working specifically with spacecraft are called astronautical engineers. May conduct basic and applied research to evaluate adaptability of materials and equipment to aircraft design and manufacture. May recommend improvements in testing equipment and techniques. Sample of reported job titles: Aeronautical Engineer, Aerospace Engineer, Aerospace Stress Engineer, Avionics Engineer, Design Engineer, Flight Controls Engineer, Flight Test Engineer, Structural Analysis Engineer, Systems Engineer, Test Engineer.	United States 6% 4,200 openings California 9% 760 openings	\$113,030 per year \$54.34 per hour California \$119, 930 annual \$57.66 per hour	CPP CPSLO CSULB SDSU SJSU UCD UCI UCLA UCSD CBU - minor USC	Tuskegee University Univ. of MD Eastern Shore	New Mexico State University
Agricultu	Agricultural engineers apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products. Sample of reported job titles: Agricultural Engineer, Agricultural Safety and Health Program Director, Agricultural Systems Specialist, Conservation Engineer, Engineer, Product Engineer, Product Technology Scientist, Project Engineer, Research Agricultural Engineer, Research Leader development to improve conservation, etc.	United States 8% 200 openings California No data available	United States \$74,780 annual \$35.95 per hour California \$75,310 annual \$36.20 per hour		Florida A&M University Fort Valley State Univ.	North Dakota State University South Dakota State University
rchitectu	Architectural engineers design, construct, maintain and renovate buildings, including all interior and exterior systems such as structural, lighting and electrical, fire protection, acoustics and more. Many architectural engineering careers focus on meeting challenges such as sustainable building materials and power, earthquake or tornado resistance and specializations in residential, commercial or industrial structures.	United States 6% 9,900 openings California 9% 2,300 openings	United States \$137,720 annual \$66.21 per hour California \$159,910 \$76.40	CPSLO CSUF - C	North Carolina A&T Uni Tennessee State Univ.	University of Wyoming

FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
Biomedical	Biomedical engineers apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems. Sample of reported job titles: Biomedical Electronics Technician, Biomedical Engineer, Biomedical Engineering Director, Biomedical Engineering Technician, Biomedical Equipment Technician (BMET), Biomedical Manager, Biomedical Technician, Engineer, Product Development Director, Research Engineer.	United States 7% 1,600 openings California 10% 380 Openings	United States \$88,040 per year \$42.33 per hour California \$98,420 annual \$47.32 per hour	CPSLO CSULB SJSU UCD UCI CBU USC Univ. of Pacific	Florida A&M University University of Delaware Univ. District of Columbia	University of Nevada @ Reno University of Utah
Bioengineering	Bioengineers are trained in fundamentals of both biology and engineering, which may include elements of electrical and mechanical engineering, computer science, materials science, chemistry, and biology. This breadth allows students and faculty to specialize in their areas of interest and collaborate widely with researchers in allied fields. Examples of bioengineering research include bacteria engineered to produce chemicals, new medical imaging technology, portable disease diagnostic devices, and tissue engineered organs. Applies to all life sciences, not just medical field.	United States 7% 1,600 openings California 10% 380 Openings	United States \$88,040 per year \$42.33 per hour California \$98,420 annual \$47.32 per hour	UCB CalTech UCLA Santa Clara UCM Stanford Univ. UCR USC UCSD Univ. of Pacific UCSC CBU	North Carolina A&T Univ.	Montana State University @ Bozeman University of Colorado @ Denver University of Hawaii @ Manoa University of Idaho Utah State University Utah Valley University Washington State University
Chemical	Chemical engineers design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement, paper, and pulp, by applying principles and technology of chemistry, physics, and engineering. Sample of reported job titles: Chemical Engineer, Development Engineer, Engineer, Engineering Scientist, Process Control Engineer, Process Engineer, Project Engineer, Refinery Process Engineer, Research Chemical Engineer, Scientist.	United States 8% 2,500 openings California 8% 190 openings	United States \$102,160 per year \$49.12 per hour California \$98,410 annual \$47.31 per hour	SJSU USC UCB	Florida A&M University Hampton University Howard University North Carolina A&T Univ. Oakwood University Prairie View A&M Univ. Tuskegee University University of Delaware	Montana State University @ Bozeman New Mexico Institute of Mining & Technology New Mexico State University South Dakota School of Mines & Technology University of Idaho University of Nevada @ Reno University of New Mexico University of North Dakota University of Utah University of Wyoming Utah Valley University

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FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY		ACHELOR OGRAMS	HBCU PROGRAMS	WUE PRO	GRAMS
Civil	Civil engineers plan, design, and oversee construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Sample of reported job titles: Bridge/Structure Inspection Team Leader, City Engineer, Civil Engineer, Civil Engineer, Manager, County Engineer, Design Engineer, Project Engineer, Railroad Design Consultant, Structural Engineer, Traffic Engineer	United States 11% 25,900 openings California 10% 3,430 openings	\$84,770 annual \$40.75 per hour California \$105, 540 annual \$50.74 per hour	CPP CPSLO CSUC FRESNO CSUF CSULB CSULA CUSN CSUS SDSU SFSU SJSU UCB UCD UCI UCLA	CBU Chapman Univ Loyola Marymt Santa Clara Stanford Univ. USC Univ. of Pacific	Alabama A&M State Univ. Florida A&M University Howard University Jackson State University Morgan State University North Carolina A&T State Prairie View A&M Univ. Savannah State University Southern A&M University Tennessee State Univ. Texas Southern Univ. University of Delaware Uni of District of Columbia	Boise State University College of Southern Nevada Colorado Mesa University Idaho State University Lewis-Clark State College Montana State Univ. @ Bozeman Montana Tech New Mexico Instit of Mining & Tech New Mexico State University North Dakota State University Northern Arizona University Oregon Institute of Technology Portland State University SD School of Mines & Technology South Dakota State University University of Alaska @ Anchorage	Univ. of Alaska @ Fairbanks Univ. of Colorado @ Denver University of Hawaii @ Manoa University of Idaho Univ. of Nevada @ Las Vegas University of Nevada @ Reno University of New Mexico University of North Dakota University of Utah University of Wyoming Utah State University Utah Valley University Washington State University Weber State University
Computer Engineering	Computer engineers research, design, develop test and oversee the manufacture and installation of computer hardware, including computer chips, circuit boards, computer systems, and related equipment such as keyboards, routers, and printers. Research, design, develop, or test computer or computer-related equipment for commercial, industrial, military, or scientific use. May supervise the manufacturing and installation of computer or computer-related equipment and components. Sample of reported job titles: Design Engineer, Engineer, Field Service Engineer, Hardware Design Engineer, Hardware Engineer, Network Engineer, Project Engineer, Senior Hardware Engineer, Systems Engineer, Systems Integration Engineer	United States 6% 5,100 openings California 10% 1,930 openings	\$115,120 annual \$55.35 per hour California \$133,960 annual \$64.40 per hour	CPP CPSLO CSUB CSUC CSUEB FRESNO CSUF CSULB CUSN CSUS SDSU CSUSB SFSU SJSU UCD UCI UCLA UCM	UCR UCSD UCSB UCSC CBU National Univ. Santa Clara USC Univ. of Pacific	Benedict College Bethune-Cookman Univ. Florida A&M University Hampton University Howard University Jackson State University Johnson C. Smith Univ. Morgan State University Norfolk State University North Carolina A&T Univ. Prairie View A&M Univ. Tennessee State Uni -C Texas Southern Univ. University of Delaware Univ. of MD Eastern Shore Uni of District of Columbia Virginia State University Wilberforce University	Metropolitan State Univ. of Denver Montana State Univ. @ Bozeman Nevada State College North Dakota State University Northern Arizona University Oregon Institute of Technology Portland State University SD School of Mines & Technology Southern Utah University University of Alaska @ Fairbanks Univ. of CO @ Colorado Springs University of Colorado @ Denver	University of Hawaii @ Manoa University of Idaho Univ. of Nevada @ Las Vegas University of Nevada @ Reno University of New Mexico University of Utah University of Wyoming Utah State University Utah Valley University Washington State University Weber State University

FIEL	D JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY		ACHELOR OGRAMS	HBCU PROGRAMS	WUE PRO	GRAMS
Computer Science	Computer and information research scientists invent and design new approaches to computing technology and find innovative uses for existing technology. They study and solve complex problems in computing for business, medicine, science, and other fields. Conduct research into fundamental computer and information science as theorists, designers, or inventors. Develop solutions to problems in the field of computer hardware and software. Sample of reported job titles: Computer Scientist, Control System Computer Scientist, Scientific Programmer Analyst	United States 19% 2,500 openings California 22% 470 openings	\$114,520 annual \$55.06 per hour California \$123,130 annual \$59.20 per hour	CPP CPSLO CSUB CSUCI CSUDH CSUEB FRESNO CSUF CSULA CSULB CSUN CSUS CSU STAN HSU SDSU SFSU SJSU SSU UCB UCD UCI UCLA UCM UCR UCSD UCSB UCSC	CA College SD CalTech Cal Lutheran U Chapman Univ Harvey Mudd La Sierra Univ. National Univ. Occidental Coll PLNU Pomona Coll Stanford Univ. Master's Univ. USD Univ. of SF USC Univ. of Pacific	Alabama A&M University Alabama State University Albany State University Alcorn State University Benedict College Bennett College Bethune-Cookman Univ. Bluefield State College Bowie State University Central State University Cheyney University of PA Claflin University Clark Atlanta University Coppin State University Delaware State University Dillard University Fayetteville State Univ. Fisk University Florida A&M University Florida Memorial Univ. Fort Valley State Univ. Grambling State University Hampton University Howard University Howard University Howard University Lackson State University Johnson C. Smith Univ. Langston University LeMoyne-Owen College Lincoln Univ. of Missouri	Boise State University Central Washington University Dixie State University Lewis-Clark State College Metropolitan State Univ. of Denver Montana State Univ. @ Bozeman Montana Tech New Mexico State University North Dakota State University Portland State University Portland State University Snow College Southern Utah University University of Colorado @ Colorado ADDITIONAL HBC Livingstone College Miles College Mississippi Valley Univ. Morehouse College Morgan State University Norfolk State University Norfolk State University North Carolina A&T State Univ. Paul Quinn College Philander Smith College Prairie View A&M Univ. Rust College Savannah State University Shaw University Southern A&M University St. Augustine's University Talladega College	University of Hawaii @ Hilo University of Hawaii @ Manoa University of Idaho Univ. of Nevada @ Las Vegas University of New Mexico University of Utah University of Wyoming Utah State University Washington State University Washington State University Washington State University Weber State University Western Washington UPROGRAMS Tennessee State University Texas College Texas Southern University Tuskegee University Univ. of AR @Pine Bluff Univ. of MD Eastern Shore Univ. District of Columbia Univ. of the Virgin Islands Virginia State University Virginia Union University Voorhees College West Virginia State Univ. Wilberforce University Winston-Salem State Univ. Xavier Univ. of Louisiana

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FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS		HBCU PROGRAMS	WUE PRO	GRAMS
Construction	Construction engineers are responsible for overseeing the construction of airports, malls, schools, manufacturing facilities, highways, high rise structures, water treatment plants and much more.			CPP CSUC FRESNO CSULB CSUN	CSUS SDSU National Univ.	Norfolk State University University of Delaware	Montana State University @ Bozem University of New Mexico North Dakota State University Central Washington University Washington State University	an
Electrical	Electrical engineers design, develop, test, and supervise the manufacture of electrical equipment. Some of this equipment includes electric motors; machinery controls, lighting and wiring in buildings; radar and navigation systems; communication systems; and power generation, control, and transmission devices used by electric utilities. Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use. Sample of reported job titles: Circuits Engineer, Design Engineer, Electrical Controls Engineer, Electrical Design Engineer, Electrical Engineer, Electrical Project Engineer, Instrumentation and Electrical Reliability Engineer (1&E Reliability Engineer), Power Systems Engineer, Project Engineer, Test Engineer.	United States 9% 13,900 openings California 12% 2,010 openings	\$97,970 annual \$47.10 per hour California \$110,880 annual \$53.31 per hour	CPP CPSLO CSUB CSUC CSUDH-C FRESNO CSUF CSULB CSULA CSUN CSUS CSUSM SDSU SFSU SJSU SSU UCB UCD	UCR UCSD UCSB UCSC CBU CalTech Loyola Marymt National Univ. Santa Clara Uni Stanford Univ. USD USC Univ. of Pacific	Alabama A&M University Benedict College Florida A&M University Hampton University Howard University Morgan State University Norfolk State University North Carolina A&T Univ. Prairie View A&M Univ. Savannah State University Southern A&M University Tennessee State Univ. Texas Southern University Tuskegee University University of Delaware Univ. of MD Eastern Shore Univ. District of Columbia Wilberforce University	Boise State University Eastern Washington University Idaho State University Montana State Univ. @ Bozeman Montana Tech NM Institute of Mining & Technol New Mexico State University North Dakota State University Northern Arizona University Oregon Institute of Technology Portland State University SD School of Mines & Technology South Dakota State University University of Alaska @ Anchorage University of Alaska @ Fairbanks Univ. of CO @ Colorado Springs University of Hawaii @ Manoa	University of Idaho University of Nevada @ Las University of Nevada @ Reno University of New Mexico University of North Dakota University of Utah University of Wyoming Utah State University Utah Valley University Washington State University Washington State University Washington State University Weber State University Western Washington
Engineering (general)	Engineers have a role in creating a variety of structures and products, from airports to zippers. If that sounds intriguing, consider a career in engineering. Engineers are professionals who invent, design, analyze, build, and test machines, systems, structures and materials to fulfill objectives and requirements while considering the limitations imposed by practicality, regulation, safety, and cost.	United States 6% 139,300 openings California No data available	<u>California</u>	CPSLO CSUB FRESNO CSUN SJSU UCI UCLA UCM	Harvey Mudd	Lincoln University Prairie View A&M Univ. Southern A&M University University of Delaware	Arizona State University Polytechnic Boise State University Fort Lewis College Lewis-Clark State University Montana State Univ. @ Bozeman Snow College University of Colorado @ Denver University of Hawaii @ Manoa	University of Nevada @ Reno University of New Mexico University of North Dakota University of Utah University of Wyoming Washington State University Weber State University

FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
Environmental	Environmental engineers research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards. Work may include waste treatment, site remediation, or pollution control technology. Sample of reported job titles: Air Pollution Control Engineer; Chief, Pesticides and Toxic Substances Branch; Environmental Analyst; Environmental Engineer; Environmental Remediation Specialist; Global Director Air and Climate Change; Hazardous Substances Engineer; Marine Engineer CPVEC (Marine Engineer Commercial Passenger Vessel Environmental Compliance); Regulatory Environmental Compliance Manager; Sanitary Engineer.	United States 8% 4,000 openings California 8% 560 openings	\$86,800 annual \$41.73 per hour California \$102,110 annual \$49.09 per hour	CPP-C UCR CPSLO UCSD CSULA-C CBU - minor HSU CalTech - minr SDSU Stanford Uni. UCB USC UCD UCI UCM	Benedict College Central State University Florida A&M University Prairie View A&M Univ. Tennessee State Univ. University of Delaware	Montana Tech New Mexico Institute of Mining & Technology Northern Arizona University Portland State University South Dakota School of Mines & Technology University of Nevada @ Reno Utah State University Washington State University Weber State University
Industrial	Industrial engineers design, develop, test, and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination. Sample of reported job titles: Engineer, Engineering Manager, Industrial Engineer, Manufacturing Specialist, Operations Engineer, Plant Engineer, Process Engineer, Production Engineer, Supply Chain Engineer, Tool Engineer.	United States 10% 19,700 openings California 15% 2,040 openings	\$85,880 annual \$41.29 per hour California \$101,420 annual \$48.76 per hour	CPP CPSLO CSUEB SJSU UCB CBU USD	Florida A&M University - Morgan State University North Carolina A&T State South Carolina State	Colorado State University @ Pueblo Montana State University @ Bozeman New Mexico State University North Dakota State University South Dakota School of Mines & Technology
Manufacturing	Manufacturing engineers design, integrate, or improve manufacturing systems. May work with commercial or industrial designers to refine product designs to increase producibility and decrease costs. Sample of reported job titles: Advanced Manufacturing Engineer, Advanced Manufacturing Vice President, Facility Engineer, Manufacturing Director, Manufacturing Engineering Director, Manufacturing Engineering Director, Manufacturing Engineering Manager, Plant Engineer, Process Engineer, Process Improvement Engineer.	United States 6% 9,500 openings California 9% 1,320 openings	\$97,250 annual \$46.75 per hour California \$107,150 annual \$51.51 per hour	CPP CPSLO CSUN National	Central State University Virginia State University	Arizona State University Polytechnic North Dakota State University Oregon Institute of Technology South Dakota State University Weber State University Washington State University Western Washington University

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FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHE PROGRA		HBCU PROGRAMS	WUE PRO	GRAMS
Materials	Materials engineers develop machinery and processes to manufacture materials for use in products that must meet specialized design and performance specifications. Develop new uses for known materials. Includes those engineers working with composite materials or specializing in one type of material, such as graphite, metal and metal alloys, ceramics and glass, plastics and polymers, and naturally occurring materials. Includes metallurgists and metallurgical engineers, ceramic engineers, and welding engineers. Sample of reported job titles: Materials and Processes Manager, Materials Branch Chief, Materials Development Engineer, Materials Engineer, Materials Research Engineer, Metallurgical Engineer, Metallurgist, Process Engineer, Research Engineer, Test Engineer.	United States 2% 1,900 openings California 6% 270 openings	United States \$94,610 annual \$45.48 per hour California \$113,380 \$54.51 per hour	CPSLO SJSU UCB UCD UCI UCLA UCM UCR CalTech		Tuskegee University University of Delaware	Boise State University New Mexico Institute of Mining & T University of Idaho University of Utah Washington State University	echnology
Mechanical	Mechanical engineers use the principles of energy, materials, and mechanics to design and manufacture machines and devices of all types. They create the processes and systems that drive technology and industry. Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of equipment such as centralized heat, gas, water, and steam systems. Sample of reported job titles: Application Engineer, Design Engineer, Design Maintenance Engineer, Equipment Engineer, Mechanical Design Engineer, Mechanical Engineer, Process Engineer, Product Engineer, Project Engineer, Test Engineer.	United States 9% 21,200 openings California 10% 1,890 openings	United States \$85,880 annual \$41.29 per hour California \$98,260 annual \$47.24 per hour	CSULA Stan CSUN USD CSUS USC	B Tech bla ta Clara U offord Univ.	Alabama A&M University Florida A&M University Howard University North Carolina A&T Univ. Prairie View A&M Univ. Southern A&M University Tennessee State Univ. Tuskegee University University of Delaware Univ. of MD Eastern Shore Univ. District of Columbia	Boise State University Central Washington University College of Southern Nevada Colorado Mesa University Eastern Washington University Idaho State University Metropolitan State Univ. Denver Montana State Univ. @ Bozeman Montana Tech NM Institute of Mining & Tech New Mexico State University North Dakota State University Northern Arizona University Oregon Institute of Technology Portland State University SD School of Mines & Technology South Dakota State University Southern Utah University Univ. of CO @Colorado Springs	Univ. of Alaska @ Anchorage Univ. of Alaska @ Fairbanks Univ. of Colorado @ Denver University of Hawaii @ Manoa University of Idaho Univ. of Nevada @ Las Vegas University of Nevada @ Reno University of New Mexico University of North Dakota University of Utah University of Wyoming Utah State University Utah Valley University Utah Valley University Washington State University WA State Univ. @Tri Cities WA State Univ. @ Vancouver Weber State University

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FIELD	JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
Mechatronics	Mechatronic engineers research, design, develop, or test automation, intelligent systems, smart devices, or industrial systems control. Sample of reported job titles: Automation Engineer, Automation Specialist, Controls Engineer, Development Engineer, Equipment Engineer, Principal Engineer, Process Engineer, Project Engineer, Senior Design Engineer, Senior Project Engineer.	United States 6% 9,500 openings California 9% 1,320 openings	United States \$97,250 annual \$46.75 per hour California \$107,150 \$51.51 per hour	CPSLO-C CSUCI CSUC		Colorado State University @ Pueblo - C Utah Valley University
Metallurgical	Metallurgical engineers transform mineral resources into high-performance alloys, high-purity metals and new materials used in surgical implants, computer chips, superconductors, cars, aircraft, advanced coatings and space. Through testing, they also ensure materials meet performance requirements. Materials and metallurgical engineers also develop sustainable materials and processes for recycling existing materials, investigate material failures, and create testing procedures to ensure materials can withstand extreme environments.	United States 2% 1,900 openings California 6% 270 openings	United States \$94,610 annual \$45.48 per hour California \$113,380 \$54.51 per hour			Montana Tech University of Nevada Reno South Dakota School of Mines & Technology University of Utah
Mining/Mineral	Mining/Mineral engineers conduct sub-surface surveys to identify the characteristics of potential land or mining development sites. May specify the ground support systems, processes and equipment for safe, economical, and environmentally sound extraction or underground construction activities. May inspect areas for unsafe geological conditions, equipment, and working conditions. May design, implement, and coordinate mine safety programs. Sample of reported job titles: Mine Engineer, Mine Engineering Manager, Mine Safety Manager, Mining Consultant, Mining Engineer, Planning Engineer, Project Engineer, Safety Coordinator, Safety Engineer, Safety Representative.	United States 8% 600 openings California No data available	United States \$94,240 annual \$45.31 per hour California \$132,020 \$63.47 per hour			University of Alaska @ Fairbanks University of Arizona Montana Tech University of Nevada @ Reno New Mexico Institute of Mining & Technology South Dakota School of Mines & Technology University of Utah

FIELI		PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
Nuclear	Conduct research on nuclear engineering projects or apply principles and theory of nuclear science to problems concerned with release, control, and use of nuclear energy and nuclear waste disposal. Sample of reported job titles: Engineer, Nuclear Design Engineer, Nuclear Engineer, Nuclear Licensing Engineer, Nuclear Process Engineer, Nuclear Reactor Engineer, Radiological Engineer, Resident Inspector, Scientist, System Engineer.	United States 4% 1,400 openings California No data Available	United States \$105,810 annual \$50.87 per hour California \$132,880 \$63.88 per hour		Alcorn State University South Carolina State Univ. Wilberforce University	Idaho State University New Mexico University
Petroleum	Petroleum engineers devise methods to improve oil and gas extraction and production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice. Petroleum engineers design and develop methods for extracting oil and gas from deposits below the earth's surface. Petroleum engineers also find new ways to extract oil and gas from older wells. Sample of reported job titles: Completion Engineer, Completions Engineer, Drilling Engineer, Drilling Manager, Engineer, Operations Engineer, Petroleum Engineer, Petroleum Production Engineer, Production Engineer, Reservoir Engineer.	United States 15% 2,800 openings California -4% 140 openings	United States \$132,280 annual 63.60 per hour California \$122,750 annual \$59.01 per hour	CSUB - C USC - C	West Virginia University	University of Alaska @ Fairbanks Montana Tech New Mexico Institute of Mining & Technology University of North Dakota University of Wyoming
Software Engineering	Software engineers research, design, develop, and test operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computing applications. Set operational specifications and formulate and analyze software requirements. May design embedded systems software. Apply principles and techniques of computer science, engineering, and mathematical analysis. Sample of reported job titles: Developer, Infrastructure Engineer, Network Engineer, Publishing Systems Analyst, Senior Software Engineer, Software Architect, Software Developer, Software Engineer, Systems Coordinator, Systems Engineer.	7,470 openings	United States \$107,600 annual \$51.73 per hour California \$124,190 annual \$59.71 per hour	CPSLO CSUSEB - C CSUMB - C CSUS - C CSUSM SJSU UCI CBU Chapman PLNU	Howard University - C	Arizona State University Polytechnic Campus Montana Tech Northern New Mexico College University of Northern Colorado Utah Valley University Valley City State University Washington State University

FIE	LD JOB DESCRIPTION	PROJECTED JOB GROWTH (2016 - 2026)	2017 MEDIAN SALARY	CA BACHELOR PROGRAMS	HBCU PROGRAMS	WUE PROGRAMS
	and shape of man made structures. Structural engineers need to understand and calculate the stability, strength and rigidity of built structures for buildings and nonbuilding structures. The structural	United States 11% 25,900 openings California 10% 3,430 openings	\$84,770 annual \$40.75 per hour California \$105, 540 annual \$50.74 per hour	UCSD		

C = concentration only

Data Sources:

bls.gov onetonline.org careeronestop.org