

Occupational Information Network

Sponsored by the U.S. Department of Labor

A wealth of information regarding specific careers! This website is a source for many other career information websites. This is a valuable resource for students, their families and friends.

Start your search by using either “Career Cluster” or “Occupation Quick Search”.

Also available from the homepage...

“I want to be a...” section includes “My Next Move”, and the O*Net Interest Profiler a career interest survey. Click “Tell us what you like to do.” to access the survey.

Career survey results provide careers related to personal interests. Detailed information about careers, including knowledge, salary potential by state, skills, abilities, technology, education level, colleges that provide the education needed by state and area, job outlook, and related careers can be accessed when you click on the career title.

One can also browse careers by industry is available in the “My Next Move” section.

“ATTN: VETERANS” connects with “My Next Move for Veterans”; and provides a crosswalk of military training with civilian careers.

The screenshot shows the O*NET OnLine homepage. At the top left is the O*NET logo and the text "O*NET OnLine" with a subtext "A proud partner of the americanjobcenter® network". To the right is an "Occupation Quick Search" bar. Below the logo is a navigation menu with links: Help, Find Occupations, Advanced Search, Crosswalks, Share, and O*NET Sites. A large banner features a construction crane and the text "Build your future with O*NET OnLine." followed by a welcome message and a "What is O*NET?" button. To the right of the banner are three boxes: "What's New?" with a "Learn More" button, "I want to be a..." with a "Find It Now" button, and "ATTN: VETERANS" with a "Get Started" button. Below the banner is an "Occupation Search" bar with a dropdown menu set to "Career Cluster". Below that are three columns: "Find Occupations" with a "Browse" dropdown, "Advanced Search" with a "Browse by O*NET Data" dropdown, and "Crosswalks" with an "Apprenticeship" dropdown. At the bottom right is a "The Green Economy" banner with "Learn More" and "Search" buttons.

To search by Career Cluster (recommended), go to the Find Occupations section, click the down arrow for the drop down menu and highlight Career Cluster. Then click the right arrow. In “Browse by Career Cluster”, click the down arrow for a drop down menu of the 16 Career Clusters. Highlight your chosen cluster and click “Go”.

Within the Career Clusters, careers will be grouped by Career Pathways. Career titles may have a leaf, a sun and/or a sun with “Bright Outlook” next to the title.



Browse by Career Cluster

Career Clusters contain occupations in the same field of work that require similar skills. Students, parents, and educators can use Career Clusters to help focus education plans towards obtaining the necessary knowledge, competencies, and training for success in a particular career pathway.

Science, Technology, Engineering & Mathematics ▾ Go ←

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, Audio/Video Technology & Communications
- Business Management & Administration
- Education & Training
- Finance
- Government & Public Administration
- Health Science
- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections & Security
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution & Logistics
- All Career Clusters

Crosswalks O*NET Sites

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Site updated August 6, 2019

Green leaf= Includes areas of environmental/ ecological projects.

Sun= Job Outlook is good.

Sun with Bright Outlook= Job Outlook is very good.

Click on a career title for detailed information!

Browse by Career Cluster

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Science, Technology, Engineering & Mathematics ▾ Go

Science, Technology, Engineering & Mathematics

Save Table [\(XLS/CSV\)](#)

Sort by: [Career Pathway](#) ▲

Code Occupation

Code	Occupation	Outlook
17-2011.00	Aerospace Engineers	Green
11-9041.00	Architectural and Engineering Managers	Leaf
17-2141.02	Automotive Engineers	Leaf
17-2199.01	Biochemical Engineers	Leaf
11-9041.01	Biofuels/Biodiesel Technology and Product Development Managers	Leaf
17-2041.00	Chemical Engineers	Leaf
17-2061.00	Computer Hardware Engineers	Leaf
17-2071.00	Electrical Engineers	Leaf
17-2072.00	Electronics Engineers, Except Computer	Leaf
17-2199.03	Energy Engineers	Leaf
17-2199.00	Engineers, All Other	Leaf
17-2111.02	Fire-Prevention and Protection Engineers	Leaf
17-2141.01	Fuel Cell Engineers	Leaf
17-2111.00	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Leaf
17-2112.01	Human Factors Engineers and Ergonomists	Bright Outlook
17-2112.00	Industrial Engineers	Sun
17-2141.04	Industrial Safety and Health Engineers	Leaf



Summary Report for: 17-2112.00 - 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

Also see: [Human Factors Engineers and Ergonomists](#)

View report: **Summary** | [Details](#) | [Custom](#)

[Tasks](#) | [Technology Skills](#) | [Tools Used](#) | [Knowledge](#) | [Skills](#) | [Abilities](#) | [Work Activities](#) | [Detailed Work Activities](#) | [Work Context](#) | [Job Zone](#) | [Education](#) | [Credentials](#) | [Interests](#) | [Work Styles](#) | [Work Values](#) | [Related Occupations](#) | [Wages & Employment](#) | [Job Openings](#) | [Additional Information](#)

Tasks

- 6 of 20 displayed
- Plan and establish sequence of operations to fabricate and assemble parts or products and to promote efficient utilization.
 - Review production schedules, engineering specifications, orders, and related information to obtain knowledge of manufacturing methods, procedures, and activities.
 - Estimate production costs, cost saving methods, and the effects of product design changes on expenditures for management review, action, and control.
 - Draft and design layout of equipment, materials, and workspace to illustrate maximum efficiency using drafting tools and computer.
 - Coordinate and implement quality control objectives, activities, or procedures to resolve production problems, maximize product reliability, or minimize costs.

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Technology Skills

- 6 of 23 displayed [Show 45 tools used](#)
- Analytical or scientific software** — Finite element method FEM software; SAS 🔥; The MathWorks MATLAB 🔥; Workcell simulation software
 - Computer aided design CAD software** 🔥 — Autodesk AutoCAD 🔥; Bentley MicroStation 🔥; Dassault Systemes CATIA 🔥; UGS Solid Edge
 - Development environment software** — Integrated development environment IDE software 🔥; Microsoft Visual Basic Scripting Edition VBScript 🔥; Microsoft Visual Studio 🔥; National Instruments LabVIEW 🔥
 - Industrial control software** — Allen Bradley PanelView; Human machine interface HMI software; Quality control software; Supervisory control and data acquisition SCADA software 🔥
 - Program testing software** — Hewlett Packard LoadRunner; JUnit 🔥; Logic programming software; User interface design software

Click titles in the report section for related details as they relate to the career.

Example: Wages & Employment (Salary Potential and Job Outlook)

Civil Engineers: (National) For state information, click “Local Salary Info.”. For Projected growth by state, click Employment Trends next to “State Trends”.

Wages & Employment Trends

Median wages (2018) \$41.84 hourly, \$87,040 annual

State wages [Local Salary Info](#)

Employment (2016) 258,000 employees

Projected growth (2016-2026) ■ Faster than average (10% to 14%)

Projected job openings (2016-2026) 19,700

State trends [Employment Trends](#)

Top industries (2016) [Manufacturing](#)
[Professional, Scientific, and Technical Services](#)

Source: Bureau of Labor Statistics [2018 wage data](#) ¹⁹ and [2016-2026 employment projections](#) ¹⁹. “Projected growth” represents the estimate 2026). “Projected job openings” represent openings due to growth and replacement.

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Job Openings on the Web



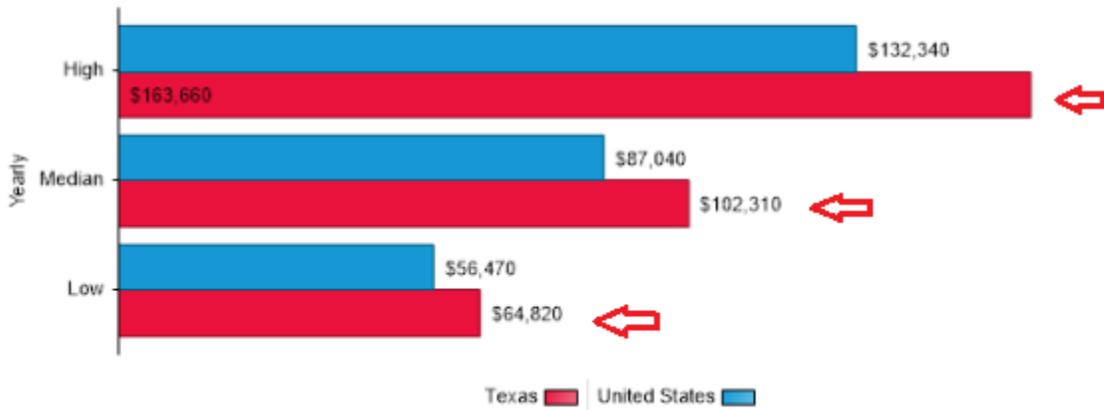
(Note that there is also a Job Openings section!)

Wage information by the state of **Texas** compared with the **US**.
 Low=top of the bottom 10% of salaries. Median=middle salary reported. High=90% mark of salaries.
 Blue=national; Red= state.

Wages for Industrial Engineers in TEXAS

[View Table](#) [View Chart](#)

[View Hourly Wages](#)



Wage information by regions in the **state**, click “View Table”.

Employment Concentration	Texas	Hourly	\$31.16	\$38.16	\$49.19	\$62.28	\$78.68
Current Wages		Yearly	\$64,820	\$79,380	\$102,310	\$129,530	\$163,660
Training Programs	Houston-The Woodlands-Sugar Land, TX Metro Area	Hourly	\$33.73	\$42.87	\$56.60	\$73.87	\$97.08
ocation Reports		Yearly	\$70,150	\$89,160	\$117,720	\$153,650	\$201,920
Unemployment Rates	Beaumont-Port Arthur, TX Metro Area	Hourly	\$35.52	\$43.73	\$54.25	\$65.53	\$85.65
Area Institutions		Yearly	\$73,890	\$90,960	\$112,830	\$136,310	\$173,110
Top Industries							
Area Profile							

Click Employment Trends then select the state in which you are interested. In this example, Texas was selected. One can view the Occupation Profile and Occupation Description and other related topics for Industrial Engineers and projected job outlook for Industrial Engineers in Texas compared with the US.

Wages & Employment Trends

Median wages (2018) \$41.84 hourly, \$87,040 annual

State wages  Local Salary Info

Employment (2016) 258,000 employees

Projected growth (2016-2026) ■■■ Faster than average (10% to 14

Projected job openings (2016-2026) 19,700

State trends  Employment Trends

Your Search

Occupation
Industrial Engineers
Location
Texas

Occupation Reports

[Current Employment](#)

[Projected Employment](#)

[Employment Concentration](#)

[Current Wages](#)

Projected Employment for Industrial Engineers in TEXAS

[View National Data](#)

[View Table](#) : [View Chart](#)

National	Employment		Percent Change	Projected Annual Job Openings*
	2016	2026		
United States	257,900	283,000	10%	19,700

State	Employment		Percent Change	Projected Annual Job Openings*
	2016	2026		
Texas	15,530	18,640	+20%	1,400

Research “Job Openings on the Web” for careers of interest. Click “Find Jobs”.

Projected growth (2016-2026) ■■■ Faster than average (10% to 14%)

Projected job openings (2016-2026) 19,700

State trends  Employment Trends

Top industries (2016) [Manufacturing](#), [Professional, Scientific, and Technical Services](#)

Source: Bureau of Labor Statistics [2018 wage data](#) and [2016-2026 employment projections](#). *Projected 2026. *Projected job openings represent openings due to growth and replacement.

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Job Openings on the Web

 Find Jobs

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You can select a location by zip code or state name. For this example, the state of Texas was chosen. The latest job posted will be at the top of the list. Click on the job title for more information about that specific job requirements, description and company information. Often a link to the job application is also provided. Some will also include careers and internships other than those with the specific title, but are related within the career family.

Job?

Where?

Search

Source:

We found **2237** [job\(s\)](#) by for **Industrial Engineers** in **Texas**.

Job Title	Company	Location	Date Posted
2019-2020 Campus Graduate - Mechanical Engineer (BS/MS)	Dow Chemical Federal Contractor	Freeport, Texas	09/23/2019
2019-2020 Campus Internship/Alternating Term Co-op - Engineering	Dow Chemical Federal Contractor	Orange, Texas	09/23/2019
2019-2020 Campus Graduate - Chemical Engineer (BS/MS)	Dow Chemical Federal Contractor	Deer Park, Texas	09/23/2019
2019-2020 Campus Graduate - Chemical Engineer (BS/MS)	Dow Chemical Federal Contractor	Orange, Texas	09/23/2019
2019-2020 Campus Graduate - Mechanical Engineer (BS/MS)	Dow Chemical Federal Contractor	Oyster Creek, Texas	09/23/2019
2019-2020 Campus Internship/Alternating Term Co-op - Engineering	Dow Chemical Federal Contractor	Seadrift, Texas	09/23/2019
Mechanical Design Engineer	PDS Tech Inc Federal Contractor	Fort Worth, Texas	09/23/2019
Engineering FEED Leader	G-TECH Services, Inc.	Houston, Texas	09/23/2019
2019-2020 Campus Graduate - Mechanical Engineer (BS/MS)	Dow Chemical Federal Contractor	Seadrift, Texas	09/23/2019
2019-2020 Campus Internship/Alternating Term Co-op - Engineering	Dow Chemical Federal Contractor	Beaumont, Texas	09/23/2019

For more assistance/information, contact Beverly Litton via Beverly.Litton@springbranchisd.com .