



The Occupation Profiles tool is located on QualityInfo.org, a website of the Oregon Employment Department

## Industrial Engineers (172112) Oregon (All Counties)

Median Hourly Wage	2022 Employment	Job Openings per Year	10-Year Growth
\$51.06	4,150	342	21.7%

### Description

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. Excludes Health and Safety Engineers, Except Mining Safety Engineers and Inspectors (17-2111).

### Job Openings Listed with the Oregon Employment Department for Industrial Engineers

There are 323 current job listings for this occupation.

Job Title	Date Posted	Location	Wage Offered
Quality Engineer I	09/30/2024	Mcminnville	DOE
Quality Engineer - Manufacturing	09/29/2024	Hillsboro	DOE
Manufacturing Engineer	09/29/2024	Portland	DOE, Neg.
Engineer III, Systems Design	09/28/2024	Hillsboro	
Design Quality Assurance Manager	09/28/2024	Eugene	
Senior Process Development Engineer	09/28/2024	Wilsonville	
Field Technical Support Engineer - Semiconductor Inspection (Surfscan)	09/27/2024	Hillsboro	DOE
Product & Process Development Engineer Intern	09/27/2024	Albany	DOE
Conversation Designer	09/27/2024	Salem	
Regional Cyclotron Engineering Manager	09/27/2024	Salem	
Principal Monitoring Diagnostic Engineer	09/27/2024	Tualatin	
Senior Reliability/Maintenance Engineer	09/27/2024	Estacada	
NIKE, Inc. Apparel Technical Design Undergraduate Internship	09/27/2024	Beaverton	
UX Designer	09/27/2024	Beaverton	
Lead Controls Manufacturing Engineer	09/27/2024	Remote	

Conversation Designer	09/27/2024	Salem	
Project Engineer	09/27/2024	Portland	
Manufacturing Engineer	09/27/2024	Hillsboro	DOE
Engineer: Manufacturing - II	09/27/2024	Hillsboro	DOE
Process Engineer (Investment Casting) (Albany, OR)	09/27/2024	Albany	DOE, Neg.

### Job Openings from Other Websites for Industrial Engineers

The following job openings have been automatically extracted from various sites across the Web. These links are provided as supplemental resources. However, the Employment Department cannot validate these openings nor endorse any of these external sites. Some of these jobs may no longer be open. In some cases, a single opening may be posted on multiple sites.

There are 207 current job listings for this occupation.

Job Title	Date Posted	Location	Employer
Manufacturing Quality Engineers	09/28/2024	Wilsonville	Sigma Design Company
Quality Engineers	09/28/2024	Portland	Riverpoint Medical
Industrial Engineers	09/28/2024	Hillsboro	His Innovations Group
Distribution Operations Managers	09/27/2024	Salem	Portland General Electric
Distribution Operations Managers	09/27/2024	Newberg	Portland General Electric
Distribution Operations Managers	09/27/2024	Tualatin	Portland General Electric
SMT Process Engineers	09/27/2024	Wilsonville	Apcon
Manufacturing Engineers	09/27/2024	Dallas	Ascentec Engineering
Distribution Operations Managers	09/27/2024	Wilsonville	Portland General Electric
Extrusion Engineers	09/27/2024	Portland	Hydro
Supplier Quality Engineers	09/27/2024	Portland	Brothers-In-Arms Memorial Project
Distribution Operations Managers	09/27/2024	Hillsboro	Portland General Electric
Manufacturing Engineers	09/26/2024	Hillsboro	Genentech
Manufacturing Engineers	09/26/2024	Tualatin	Viper
IoT Software Engineers	09/26/2024	Portland	Canonical Group
Manufacturing Controls Engineers	09/26/2024	[Unknown City]	GE Aerospace
Manufacturing Engineers	09/26/2024	Hillsboro	Rampcousa
Manufacturing Engineers	09/26/2024	Tualatin	Viper Northwest
Continuous Improvement Engineers	09/25/2024	Salem	Ryder
Improvement Engineers	09/25/2024	Hillsboro	Pediatrix

## State of Oregon Licenses & Certifications for Industrial Engineers

### License

### License Authority

Engineer, Licensed Professional

Board of Engineering &amp; Land Surveying Examiners

## Wage Range 2024 for Industrial Engineers

Area	10th Percentile	25th Percentile	50th Percentile (median)	75th Percentile	90th Percentile	Average Hourly	Average Annual
Oregon	\$36.37	\$41.28	\$51.06	\$62.48	\$69.04	\$52.41	\$109,009
Central Oregon	\$34.01	\$37.26	\$42.09	\$52.51	\$60.03	\$45.07	\$93,752
Clackamas	\$37.74	\$41.28	\$49.63	\$60.64	\$64.71	\$50.69	\$105,420
Columbia Basin	\$28.72	\$37.44	\$41.36	\$42.77	\$47.11	\$40.13	\$83,467
Columbia Gorge	\$37.02	\$39.51	\$44.56	\$51.01	\$55.53	\$45.81	\$95,285
Douglas	\$25.22	\$32.48	\$38.08	\$41.77	\$53.33	\$39.41	\$81,958
East Cascades	\$34.36	\$37.26	\$40.12	\$52.18	\$57.86	\$44.72	\$93,024
Eastern Oregon	\$31.24	\$38.08	\$42.63	\$46.81	\$47.11	\$41.86	\$87,072
Eastern Six	\$36.91	\$42.09	\$46.20	\$46.81	\$47.06	\$44.11	\$91,747
Lane	\$30.52	\$37.55	\$44.67	\$59.15	\$62.07	\$46.59	\$96,909
Linn-Benton	\$34.10	\$39.77	\$47.97	\$53.81	\$65.50	\$48.52	\$100,929
Mid-Valley	\$34.64	\$40.25	\$48.34	\$53.81	\$62.48	\$48.10	\$100,054
Northwest Oregon	\$38.24	\$40.74	\$48.44	\$58.16	\$68.90	\$51.44	\$106,985
Portland Tri-County	\$37.74	\$41.42	\$51.47	\$64.71	\$69.88	\$54.00	\$112,325
Portland-Metro	\$37.74	\$41.42	\$51.52	\$66.07	\$73.60	\$54.51	\$113,379
Rogue Valley	\$30.82	\$37.34	\$43.56	\$49.84	\$60.09	\$44.97	\$93,543
Southwestern Oregon	\$29.46	\$33.31	\$38.69	\$41.77	\$53.33	\$39.38	\$81,914

## Employment Outlook for Industrial Engineers

### Statewide Employment Analysis

Employment in this occupation in 2022 was somewhat larger than most occupations across the state. The total number of job openings is projected to be somewhat larger than most occupations in Oregon through 2032. This occupation is expected to grow at a somewhat faster rate than the statewide average growth rate for all occupations through 2032.

Reasonable employment opportunities exist.

## Area Employment Projections for Industrial Engineers

Area	2022 Employment	2032 Employment	Change	% Change	Annual Growth Openings	Annual Replacement Openings	Total Annual Openings
Oregon	4,150	5,052	902	21.7%	90	252	342
Central Oregon	103	136	33	32.0%	3	7	10
Columbia Gorge	20	25	5	25.0%	0	1	1
East Cascades	194	249	55	28.4%	5	12	17
Eastern Oregon	14	16	2	14.3%	0	0	0
Lane	101	121	20	19.8%	2	6	8
Linn-Benton	220	269	49	22.3%	5	13	18
Mid-Valley	223	273	50	22.4%	5	14	19
Northwest Oregon	170	190	20	11.8%	2	10	12
Portland Tri-County	3,266	3,971	705	21.6%	70	198	268
Rogue Valley	68	81	13	19.1%	1	4	5
South Central	71	88	17	23.9%	2	4	6
Southwestern Oregon	27	31	4	14.8%	0	2	2

Replacement openings occur when workers permanently leave an occupation for reasons such as retirement.

## Industries of Employment for Industrial Engineers

Industry	Employment
Total All Industries	4,150
Manufacturing	3,216
Food Manufacturing	32
Wood Product Manufacturing	30
Veneer, Plywood, and Engineered Wood Product Manufacturing	15
Paper Manufacturing	69
Pulp, Paper, and Paperboard Mills	38
Converted Paper Product Manufacturing	31
Chemical Manufacturing	51
Chemical Manufacturing (3251, 3252, 3253, and 3259 only)	41
Plastics and Rubber Products Manufacturing	94

Nonmetallic Mineral Product Manufacturing	26
Primary Metal Manufacturing	265
Foundries	219
Fabricated Metal Product Manufacturing	160
Fabricated Metal Product Manufacturing (3321, 3322, 3325, 3326, and 3329 only)	95
Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	51
Machinery Manufacturing	435
Commercial and Service Industry Machinery Manufacturing	48
Computer and Electronic Product Manufacturing	1,654
Semiconductor and Other Electronic Component Manufacturing	1,405
Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	201
Electrical Equipment, Appliance, and Component Manufacturing	27
Electrical Equipment Manufacturing	18
Transportation Equipment Manufacturing	242
Motor Vehicle Body and Trailer Manufacturing	10
Motor Vehicle Parts Manufacturing	38
Aerospace Product and Parts Manufacturing	127
Miscellaneous Manufacturing	118
Medical Equipment and Supplies Manufacturing	99
Other Miscellaneous Manufacturing	19
Transportation and Warehousing	62
Professional, Scientific, and Technical Services	343
Scientific Research and Development Services	83
Management of Companies and Enterprises	167
Management of Companies and Enterprises	167
Management of Companies and Enterprises	167
Administrative and Support Services	54
Employment Services	54
Educational Services	35
Educational Services	35
Other Services (except Government)	156

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Occupational employment in some industries may not be displayed due to confidentiality.

## Educational Requirements for Industrial Engineers

The typical entry level education for this occupation is a Bachelor's degree. Those with a Master's degree have a competitive advantage in the labor market.

## Knowledge, Skills, Abilities, and Work Activities

### Knowledge

Examples of the knowledge needed for success in this occupation is listed below, in order of importance. This information comes from the Occupational Information Network (O\*NET).

- **Engineering and Technology:** Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.
- **Production and Processing:** Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.
- **Mechanical:** Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- **Design:** Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.
- **English Language:** Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

### Skills

Examples of the skills needed for success in this occupation are listed below, in order of importance. This information comes from the Occupational Information Network (O\*NET).

- **Reading Comprehension:** Reading work-related information.
- **Critical Thinking:** Thinking about the pros and cons of different ways to solve a problem.
- **Active Listening:** Listening to others, not interrupting, and asking good questions.
- **Speaking:** Talking to others.
- **Complex Problem Solving:** Noticing a problem and figuring out the best way to solve it.

### Abilities

Examples of the abilities needed for success in this occupation are listed below, in order of importance. This information comes from the Occupational Information Network (O\*NET).

- **Inductive Reasoning:** Making general rules or coming up with answers from lots of detailed information.
- **Written Comprehension:** Reading and understanding what is written.
- **Written Expression:** Communicating by writing.
- **Oral Comprehension:** Listening and understanding what people say.
- **Oral Expression:** Communicating by speaking.

### Detailed Work Activities

Examples of the detailed work activities involved with this occupation are listed below, in order of importance. This information comes from the Occupational Information Network (O\*NET).

- Estimate operational costs.
- Determine operational methods.
- Analyze project data to determine specifications or requirements.

- Discuss designs or plans with clients.
- Communicate technical information to suppliers, contractors, or regulatory agencies.

### Schools and Training Providers for Industrial Engineers

The training providers listed below offer programs related to this occupation. This information is updated once per year. Anyone interested in a particular program should check with the training institution regarding its availability. Listing these training providers does not necessarily constitute or imply their endorsement, recommendation, or favoring by the State of Oregon.

School	City	Programs of Training and Graduates		
Clackamas Community College	Oregon City	Industrial Engineering	Postsec. Awards/Cert./Diplomas; 1-2 yrs.	0
		Industrial Engineering	Associate's Degree	0
Oregon State University	Corvallis	Industrial Engineering	Bachelor's Degree	59
		Industrial Engineering	Master's Degree	14
		Industrial Engineering	Doctor's Degrees	5
		Manufacturing Engineering	Bachelor's Degree	49
Portland State University	Portland	Engineering/Industrial Management	Postbaccalaureate Certificates	2
		Engineering/Industrial Management	Master's Degree	34
		Engineering/Industrial Management	Doctor's Degrees	1
		Systems Engineering	Postbaccalaureate Certificates	6
		Systems Engineering	Master's Degree	9
University of Portland	Portland	Engineering/Industrial Management	Bachelor's Degree	0

### Related Occupations

Occupations related to **Industrial Engineers** are listed below in order of most relevant. This information comes from the Occupational Information Network (O\*NET).

- Industrial Production Managers
- Mechanical Engineers
- Electrical Engineers
- Engineers, All Other
- Electronics Engineers, Except Computer
- Logisticians
- Materials Engineers