

# High-Wage, High-Demand, and High-Skill Occupations

## Oregon Statewide

In 2007, the Oregon Employment Department, in collaboration with the Oregon Workforce Investment Board (OWIB), Oregon Department of Education, and other partners, developed definitions for high-wage, high-skill, and high-demand occupations as follows:

### **High-wage Occupations**

Occupations paying more than the all-industry, all-ownership median wage for statewide or a particular region.

### **High-demand Occupations**

Occupations having more than the median number of total (growth plus replacement) openings for statewide or a particular region.

### **High-skill Occupations**

Occupations with a minimum educational requirement of postsecondary training or higher

AND

Occupations with long-term on-the-job training or related work experience as a minimum educational requirement, and postsecondary training or above as a competitive educational requirement.

There are four separate tables below:

1. High-Wage (region-specific)
2. High-Demand (region-specific)
3. High-Wage and High-Demand (region-specific)
4. High Skill (list produced for statewide only and included in each regional file)

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## High-Wage Occupations

Occupations paying more than the 2007 median wage for the state  
Oregon Statewide (Median wage \$15.22)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
<b>Management, Business, and Financial</b>							
11-1011 Chief Executives	1,591	1,769	178	317	495	NA	Bachelor's
11-1021 General and Operations Managers	20,549	23,533	2,984	4,157	7,141	\$39.66	Bachelor's
11-2011 Advertising and Promotions Managers	684	798	114	134	248	\$32.60	Bachelor's
11-2021 Marketing Managers	3,016	3,666	650	616	1,266	\$39.66	Bachelor's
11-2022 Sales Managers	3,534	4,001	467	695	1,162	\$44.16	Bachelor's
11-2031 Public Relations Managers	1,061	1,242	181	199	380	\$28.12	Bachelor's
11-3011 Administrative Services Managers	1,845	2,146	301	388	689	\$31.49	Bachelor's
11-3021 Computer and Information Systems Managers	2,878	3,302	424	561	985	\$45.14	Bachelor's
11-3031 Financial Managers	4,389	4,966	577	671	1,248	\$43.82	Bachelor's
11-3041 Compensation and Benefits Managers	198	223	25	36	61	\$40.43	Bachelor's
11-3042 Training and Development Managers	196	226	30	36	66	\$33.00	Bachelor's
11-3049 Human Resources Managers, All Other	1,324	1,517	193	240	433	\$39.64	Bachelor's
11-3051 Industrial Production Managers	2,774	2,877	103	546	649	\$36.69	Bachelor's
11-3061 Purchasing Managers	1,042	1,147	105	238	343	\$36.84	Bachelor's
11-3071 Transportation, Storage, and Distribution Managers	1,422	1,598	176	295	471	\$33.41	Bachelor's
11-9011 Farm, Ranch, and Other Agricultural Managers	1,404	1,538	134	253	387	\$27.69	Related work experience
11-9021 Construction Managers	3,495	3,987	492	678	1,170	\$34.70	Related work experience
11-9031 Preschool and Child Care Administrators	636	723	87	169	256	\$16.87	Associate
11-9032 Elementary and Secondary School Administrators	2,129	2,337	208	554	762	\$81.910	Bachelor's
11-9033 Postsecondary School Administrators	1,608	1,868	260	431	691	\$35.90	Master's
11-9039 Education Administrators, All Other	237	287	50	65	115	\$27.90	Master's
11-9041 Engineering Managers	3,365	3,519	154	686	840	\$52.29	Bachelor's
11-9051 Food Service Managers	2,354	2,812	458	421	879	\$21.14	Related work experience
11-9061 Funeral Directors	357	364	7	103	110	\$24.61	Associate
11-9071 Gaming Managers	63	84	21	14	35	NA	Associate
11-9081 Lodging Managers	756	896	140	137	277	\$19.27	Related work experience
11-9111 Medical and Health Services Managers	2,904	3,668	764	640	1,404	\$37.15	Bachelor's
11-9121 Natural Sciences Managers	799	855	56	159	215	\$42.88	Bachelor's
11-9131 Postmasters and Mail Superintendents	317	287	0	57	57	\$27.49	Related work experience
11-9141 Property, Real Estate, and Community Association Managers	3,694	4,124	430	730	1,160	\$18.41	Moderate-term on-the-job training
11-9151 Social and Community Service Managers	1,997	2,378	381	420	801	\$24.27	Bachelor's
11-9199 Managers, All Other	8,125	9,183	1,058	1,686	2,744	\$32.69	Bachelor's
Agents and Business Managers of Artists, Performers, and							
13-1011 Athletes	62	72	10	13	23	NA	Bachelor's
13-1021 Purchasing Agents and Buyers, Farm Products	551	616	65	199	264	\$25.14	Bachelor's
13-1022 Wholesale and Retail Buyers, Except Farm Products	2,711	3,138	427	765	1,192	\$19.78	Bachelor's
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm	3,231	3,483	252	835	1,087	\$22.14	Bachelor's
13-1031 Claims Investigators, Examiners, and Adjusters	3,318	3,605	287	427	714	\$24.36	Long-term on-the-job training
13-1032 Insurance Appraisers, Vehicle Damage	59	64	5	8	13	NA	Long-term on-the-job training
Compliance Officers, Except Agriculture, Construction, Health							
13-1041 and Safety, and Transportation	2,392	2,559	167	582	749	\$22.19	Bachelor's
13-1051 Cost Estimators	3,512	3,970	458	839	1,297	\$25.27	Moderate-term on-the-job training
13-1061 Emergency Management Specialists	141	163	22	33	55	\$23.18	Related work experience
13-1071 Employment, Recruitment, and Placement Specialists	2,231	2,597	366	370	736	\$19.48	Bachelor's
13-1072 Compensation, Benefits, and Job Analysis Specialists	950	1,099	149	157	306	\$21.43	Bachelor's
13-1073 Training and Development Specialists	2,519	2,876	357	413	770	\$22.37	Bachelor's

\* Occupations with declining employment have zero growth openings  
NA Median wage unavailable, but estimate to be above state median  
Annual wages represent a partial work year, e.g. school year



## High-Wage Occupations

Occupations paying more than the 2007 median wage for the state  
Oregon Statewide (Median wage \$15.22)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
Human Resources, Training, and Labor Relations Specialists,							
13-1079 All Other	3,830	4,651	821	722	1,543	\$25.98	Bachelor's
13-1081 Logisticians	590	625	35	103	138	\$28.17	Bachelor's
13-1111 Management Analysts	3,390	3,825	435	494	929	\$27.09	Bachelor's
13-1121 Meeting and Convention Planners	444	527	83	106	189	\$17.39	Related work experience
13-1199 Business Operations Specialists, All Other	12,841	14,512	1,671	2,328	3,999	\$22.70	Bachelor's
13-2011 Accountants and Auditors	11,511	12,947	1,436	2,308	3,744	\$25.18	Bachelor's
13-2021 Appraisers and Assessors of Real Estate	1,087	1,223	136	248	384	\$24.16	Postsecondary training
13-2031 Budget Analysts	637	695	58	109	167	\$26.75	Bachelor's
13-2041 Credit Analysts	637	724	87	106	193	\$24.77	Bachelor's
13-2051 Financial Analysts	1,484	1,694	210	234	444	\$31.99	Bachelor's
13-2052 Personal Financial Advisors	613	821	208	93	301	\$25.04	Bachelor's
13-2053 Insurance Underwriters	1,035	1,109	74	190	264	\$27.77	Bachelor's
13-2061 Financial Examiners	156	173	17	38	55	\$27.82	Bachelor's
13-2071 Loan Counselors	555	672	117	99	216	\$16.84	Bachelor's
13-2072 Loan Officers	5,262	6,124	862	915	1,777	\$24.70	Bachelor's
13-2081 Tax Examiners, Collectors, and Revenue Agents	759	801	42	179	221	\$19.64	Bachelor's
13-2082 Tax Preparers	1,435	1,534	99	244	343	\$16.48	Postsecondary training
13-2099 Financial Specialists, All Other	1,735	1,984	249	326	575	\$24.22	Bachelor's
<b>Professional and Related</b>							
15-1011 Computer and Information Scientists, Research	182	188	6	21	27	\$56.46	Master's
15-1021 Computer Programmers	3,237	3,736	499	823	1,322	\$31.16	Bachelor's
15-1031 Computer Software Engineers, Applications	7,433	8,329	896	779	1,675	\$40.66	Bachelor's
15-1032 Computer Software Engineers, Systems Software	2,038	2,287	249	214	463	\$45.49	Bachelor's
15-1041 Computer Support Specialists	7,867	9,010	1,143	1,038	2,181	\$19.98	Postsecondary training
15-1051 Computer Systems Analysts	3,394	3,896	502	413	915	\$32.66	Bachelor's
15-1061 Database Administrators	1,113	1,287	174	124	298	\$33.04	Bachelor's
15-1071 Network and Computer Systems Administrators	3,096	4,102	1,006	399	1,405	\$28.53	Bachelor's
15-1081 Network Systems and Data Communications Analysts	2,588	3,347	759	349	1,108	\$28.83	Bachelor's
15-1099 Computer Specialists, All Other	5,203	5,840	637	625	1,262	\$29.18	Postsecondary training
15-2011 Actuaries	136	157	21	63	84	\$45.95	Bachelor's
15-2021 Mathematicians	4	4	0	2	2	NA	Bachelor's
15-2031 Operations Research Analysts	353	402	49	83	132	\$30.45	Bachelor's
15-2041 Statisticians	431	484	53	120	173	\$26.54	Bachelor's
15-2091 Mathematical Technicians	22	26	4	5	9	\$22.02	Associate
17-1011 Architects, Except Landscape and Naval	1,756	2,169	413	224	637	\$26.34	Bachelor's
17-1012 Landscape Architects	348	429	81	44	125	\$25.48	Bachelor's
17-1021 Cartographers and Photogrammetrists	306	348	42	112	154	\$23.33	Bachelor's
17-1022 Surveyors	780	938	158	294	452	\$28.67	Bachelor's
17-2011 Aerospace Engineers	72	77	5	18	23	NA	Bachelor's
17-2021 Agricultural Engineers	33	37	4	12	16	\$29.13	Bachelor's
17-2031 Biomedical Engineers	70	76	6	12	18	NA	Bachelor's
17-2041 Chemical Engineers	299	320	21	93	114	\$42.32	Bachelor's
17-2051 Civil Engineers	2,931	3,411	480	505	985	\$32.45	Bachelor's
17-2061 Computer Hardware Engineers	3,218	3,200	0	535	535	\$42.47	Bachelor's
17-2071 Electrical Engineers	979	1,097	118	204	322	\$37.86	Bachelor's
17-2072 Electronics Engineers, Except Computer	2,085	2,267	182	428	610	\$36.39	Bachelor's
17-2081 Environmental Engineers	464	538	74	85	159	\$35.13	Bachelor's

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Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	209	222	13	52	65	\$33.14	Bachelor's
17-2111 and Inspectors	209	222	13	52	65	\$33.14	Bachelor's
17-2112 Industrial Engineers	2,987	3,034	47	729	776	\$35.60	Bachelor's
17-2121 Marine Engineers and Naval Architects	18	18	0	8	8	\$27.36	Bachelor's
17-2131 Materials Engineers	414	438	24	112	136	\$36.27	Bachelor's
17-2141 Mechanical Engineers	2,829	3,123	294	814	1,108	\$34.34	Bachelor's
Mining and Geological Engineers, Including Mining Safety Engineers	9	9	0	3	3	\$41.83	Bachelor's
17-2151 Engineers	9	9	0	3	3	\$41.83	Bachelor's
17-2199 Engineers, All Other	1,723	1,868	145	342	487	\$36.74	Bachelor's
17-3011 Architectural and Civil Drafters	1,656	1,997	341	514	855	\$19.34	Postsecondary training
17-3012 Electrical and Electronics Drafters	257	253	0	72	72	\$20.59	Postsecondary training
17-3013 Mechanical Drafters	818	899	81	241	322	\$23.33	Postsecondary training
17-3019 Drafters, All Other	407	469	62	106	168	\$20.42	Postsecondary training
17-3022 Civil Engineering Technicians	1,173	1,338	165	263	428	\$23.49	Associate
17-3023 Electrical and Electronic Engineering Technicians	3,109	3,262	153	667	820	\$22.64	Associate
17-3024 Electro-Mechanical Technicians	349	362	13	74	87	\$21.49	Associate
17-3025 Environmental Engineering Technicians	238	266	28	53	81	\$21.72	Associate
17-3026 Industrial Engineering Technicians	4,017	3,973	0	836	836	\$20.82	Associate
17-3027 Mechanical Engineering Technicians	624	700	76	139	215	\$25.86	Associate
17-3029 Engineering Technicians, All Other	1,191	1,252	61	294	355	\$22.72	Associate
17-3031 Surveying and Mapping Technicians	1,366	1,638	272	547	819	\$18.27	Moderate-term on-the-job training
19-1011 Animal Scientists	29	35	6	6	12	NA	Bachelor's
19-1012 Food Scientists and Technologists	112	121	9	21	30	\$19.09	Bachelor's
19-1013 Soil and Plant Scientists	464	523	59	88	147	\$28.85	Bachelor's
19-1021 Biochemists and Biophysicists	75	86	11	25	36	\$25.21	Bachelor's
19-1022 Microbiologists	89	100	11	30	41	\$23.28	Bachelor's
19-1023 Zoologists and Wildlife Biologists	1,162	1,295	133	385	518	\$26.66	Master's
19-1029 Biological Scientists, All Other	669	694	25	213	238	\$29.59	Bachelor's
19-1031 Conservation Scientists	474	499	25	142	167	\$20.53	Bachelor's
19-1032 Foresters	734	761	27	218	245	\$28.91	Bachelor's
19-1041 Epidemiologists	47	55	8	9	17	\$29.04	Doctorate
19-1042 Medical Scientists, Except Epidemiologists	1,107	1,265	158	209	367	\$25.83	Doctorate
19-1099 Life Scientists, All Other	117	136	19	22	41	\$29.06	Bachelor's
19-2011 Astronomers	1	1	0	0	0	NA	Master's
19-2012 Physicists	83	102	19	30	49	NA	Master's
19-2021 Atmospheric and Space Scientists	120	137	17	51	68	\$41.44	Bachelor's
19-2031 Chemists	590	653	63	203	266	\$24.38	Bachelor's
19-2032 Materials Scientists	39	43	4	13	17	NA	Bachelor's
19-2041 Environmental Scientists and Specialists, Including Health	994	1,112	118	187	305	\$28.77	Bachelor's
19-2042 Geoscientists, Except Hydrologists and Geographers	275	333	58	54	112	\$32.47	Bachelor's
19-2043 Hydrologists	208	229	21	39	60	\$36.25	Bachelor's
19-2099 Physical Scientists, All Other	305	351	46	75	121	\$35.98	Bachelor's
19-3011 Economists	356	431	75	114	189	\$35.06	Bachelor's
19-3021 Market Research Analysts	1,524	1,700	176	418	594	\$29.51	Bachelor's
19-3022 Survey Researchers	315	408	93	94	187	\$16.81	Bachelor's
19-3031 Clinical, Counseling, and School Psychologists	975	1,190	215	236	451	\$28.85	Master's
19-3032 Industrial-Organizational Psychologists	22	24	2	5	7	\$39.37	Master's
19-3039 Psychologists, All Other	177	209	32	41	73	\$42.40	Master's

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## High-Wage Occupations

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Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
19-3041 Sociologists	21	27	6	8	14	\$25.95	Master's
19-3051 Urban and Regional Planners	1,090	1,240	150	389	539	\$29.26	Master's
19-3091 Anthropologists and Archeologists	146	168	22	32	54	\$25.45	Bachelor's
19-3092 Geographers	32	35	3	7	10	\$31.02	Bachelor's
19-3093 Historians	21	25	4	5	9	\$24.10	Master's
19-3099 Social Scientists and Related Workers, All Other	391	464	73	91	164	\$30.23	Bachelor's
19-4021 Biological Technicians	1,595	1,773	178	285	463	\$15.43	Associate
19-4031 Chemical Technicians	371	420	49	99	148	\$18.52	Associate
19-4041 Geological and Petroleum Technicians	43	52	9	12	21	\$16.31	Associate
19-4051 Nuclear Technicians	5	5	0	1	1	NA	Associate
19-4061 Social Science Research Assistants	398	489	91	104	195	\$17.71	Postsecondary training
19-4091 Environmental Science and Protection Technicians, Including Health	393	446	53	99	152	\$20.75	Associate
19-4092 Forensic Science Technicians	182	200	18	45	63	\$26.67	Bachelor's
19-4093 Forest and Conservation Technicians	2,866	2,935	69	683	752	\$15.37	Moderate-term on-the-job training
19-4099 Life, Physical, and Social Science Technicians, All Other	1,957	2,232	275	493	768	\$16.81	Associate
21-1011 Substance Abuse and Behavioral Disorder Counselors	1,520	1,869	349	387	736	\$16.47	Associate
21-1012 Educational, Vocational, and School Counselors	2,680	3,006	326	649	975	\$23.56	Master's
21-1013 Marriage and Family Therapists	244	326	82	65	147	\$22.66	Master's
21-1014 Mental Health Counselors	1,691	2,104	413	433	846	\$21.62	Master's
21-1019 Counselors, All Other	126	153	27	26	53	\$21.43	Master's
21-1021 Child, Family, and School Social Workers	3,284	3,779	495	604	1,099	\$17.94	Bachelor's
21-1022 Medical and Public Health Social Workers	1,143	1,397	254	217	471	\$23.35	Bachelor's
21-1023 Mental Health and Substance Abuse Social Workers	1,862	2,262	400	353	753	\$15.72	Master's
21-1029 Social Workers, All Other	1,737	1,983	246	347	593	\$20.88	Bachelor's
21-1091 Health Educators	592	716	124	115	239	\$22.42	Master's
21-1092 Probation Officers and Correctional Treatment Specialists	1,766	1,964	198	328	526	\$22.16	Bachelor's
21-1099 Community and Social Service Specialists, All Other	1,111	1,258	147	221	368	\$16.58	Moderate-term on-the-job training
21-2011 Clergy	3,773	4,376	603	836	1,439	\$21.00	Bachelor's
21-2021 Directors, Religious Activities and Education	1,541	1,779	238	183	421	\$15.61	Bachelor's
23-1011 Lawyers	4,745	5,428	683	654	1,337	\$41.45	1st Professional
23-1021 Administrative Law Judges, Adjudicators, and Hearing Officers	302	325	23	40	63	\$27.62	1st Professional
23-1022 Arbitrators, Mediators, and Conciliators	200	244	44	29	73	\$37.08	Bachelor's
23-1023 Judges and Magistrates	375	416	41	51	92	\$47.36	1st Professional
23-2011 Paralegals and Legal Assistants	1,752	2,008	256	151	407	\$19.62	Associate
23-2091 Court Reporters	168	195	27	20	47	NA	Postsecondary training
23-2092 Law Clerks	415	469	54	48	102	\$17.86	Bachelor's
23-2093 Title Examiners, Abstractors, and Searchers	1,467	1,637	170	170	340	\$21.75	Moderate-term on-the-job training
23-2099 Legal Support Workers, All Other	351	390	39	41	80	\$21.26	Postsecondary training
25-1191 Graduate Teaching Assistants	2,068	2,385	317	503	820	\$35,691	Bachelor's
25-1199 Postsecondary Teachers, Except Graduate Teaching	17,541	20,170	2,629	4,258	6,887	\$66,537	Master's
25-2012 Kindergarten Teachers, Except Special Education	1,737	1,907	170	217	387	\$38,082	Bachelor's
25-2021 Elementary School Teachers, Except Special Education	15,834	17,189	1,355	3,644	4,999	\$47,489	Bachelor's
25-2022 Middle School Teachers, Except Special and Vocational Education	7,426	8,025	599	1,705	2,304	\$47,575	Bachelor's
25-2023 Vocational Education Teachers, Middle School	143	155	12	33	45	\$48,494	Bachelor's
25-2031 Secondary School Teachers, Except Special and Vocational Education	10,557	11,450	893	3,096	3,989	\$48,081	Bachelor's

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25-2032 Vocational Education Teachers, Secondary School Special Education Teachers, Preschool, Kindergarten, and Elementary School	330	357	27	97	124	\$51,093	Bachelor's
25-2041 Special Education Teachers, Middle School	2,052	2,219	167	509	676	\$51,575	Bachelor's
25-2042 Special Education Teachers, Secondary School	864	927	63	213	276	\$49,752	Bachelor's
25-2043 Adult Literacy, Remedial Education, and GED Teachers and Instructors	1,548	1,673	125	384	509	\$50,440	Bachelor's
25-3011 Teachers and Instructors, All Other	700	806	106	93	199	\$21.16	Bachelor's
25-3099 Archivists	3,970	4,438	468	518	986	\$17.91	Bachelor's
25-4011 Curators	37	39	2	8	10	\$22.27	Master's
25-4012 Librarians	104	116	12	24	36	\$18.47	Master's
25-4021 Farm and Home Management Advisors	1,617	1,803	186	408	594	\$25.78	Master's
25-9021 Instructional Coordinators	162	187	25	27	52	\$26.69	Bachelor's
25-9031 Art Directors	1,581	1,797	216	257	473	\$28.22	Bachelor's
27-1011 Fine Artists, Including Painters, Sculptors, and Illustrators	380	465	85	92	177	\$33.02	Bachelor's
27-1013 Multi-Media Artists and Animators	214	250	36	50	86	\$18.74	Long-term on-the-job training
27-1014 Artists and Related Workers, All Other	380	461	81	91	172	\$27.11	Bachelor's
27-1019 Commercial and Industrial Designers	195	224	29	37	66	\$17.31	Bachelor's
27-1021 Fashion Designers	382	432	50	54	104	\$20.57	Bachelor's
27-1022 Graphic Designers	464	582	118	70	188	\$27.51	Bachelor's
27-1024 Interior Designers	2,438	2,816	378	351	729	\$18.44	Associate
27-1025 Set and Exhibit Designers	656	831	175	99	274	NA	Bachelor's
27-1027 Designers, All Other	129	146	17	18	35	\$25.79	Bachelor's
27-1029 Producers and Directors	114	140	26	23	49	NA	Postsecondary training
27-2012 Athletes and Sports Competitors	818	932	114	131	245	\$45,350	Bachelor's
27-2021 Choreographers	82	94	12	17	29	NA	Long-term on-the-job training
27-2032 Music Directors and Composers	197	253	56	138	194	\$19.82	Related work experience
27-2041 Musicians and Singers	604	695	91	136	227	\$40,126	Bachelor's
27-2042 Broadcast News Analysts	1,172	1,342	170	263	433	NA	Long-term on-the-job training
27-3021 Public Relations Specialists	147	160	13	37	50	\$26.06	Bachelor's
27-3031 Editors	1,818	2,075	257	279	536	\$23.18	Bachelor's
27-3041 Technical Writers	1,149	1,257	108	291	399	\$21.86	Bachelor's
27-3042 Writers and Authors	691	766	75	210	285	\$28.13	Bachelor's
27-3043 Interpreters and Translators	509	593	84	95	179	\$24.23	Bachelor's
27-3091 Media and Communication Workers, All Other	657	774	117	86	203	\$18.62	Long-term on-the-job training
27-3099 Audio and Video Equipment Technicians	407	471	64	53	117	\$16.28	Associate
27-4011 Sound Engineering Technicians	742	836	94	193	287	\$17.10	Long-term on-the-job training
27-4014 Camera Operators, Television, Video, and Motion Picture Film and Video Editors	96	109	13	25	38	\$22.17	Postsecondary training
27-4031 Media and Communication Equipment Workers, All Other	247	280	33	56	89	NA	Moderate-term on-the-job training
27-4032	120	138	18	27	45	\$21.97	Associate
27-4099	184	202	18	41	59	\$19.48	Moderate-term on-the-job training
<b>Health Care</b>							
29-1011 Chiropractors	330	481	151	77	228	NA	1st Professional
29-1021 Dentists, General	898	1,168	270	173	443	NA	1st Professional
29-1029 Dentists, All Other	340	434	94	65	159	NA	1st Professional
29-1031 Dietitians and Nutritionists	484	587	103	139	242	\$25.98	Bachelor's
29-1041 Optometrists	308	424	116	102	218	\$40.17	1st Professional
29-1051 Pharmacists	3,169	3,696	527	665	1,192	\$46.94	1st Professional
29-1060 Physicians and Surgeons	6,751	8,927	2,176	1,048	3,224	NA	1st Professional

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## High-Wage Occupations

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	2006	2016	Due to Growth*	Due to Replacement	Total		
29-1071 Physician Assistants	613	967	354	121	475	\$37.79	Bachelor's
29-1081 Podiatrists	47	64	17	14	31	NA	1st Professional
29-1111 Registered Nurses	27,988	34,921	6,933	6,582	13,515	\$31.74	Associate
29-1121 Audiologists	178	242	64	51	115	\$31.15	Master's
29-1122 Occupational Therapists	911	1,150	239	139	378	\$30.01	Bachelor's
29-1123 Physical Therapists	1,942	2,584	642	223	865	\$31.52	Master's
29-1124 Radiation Therapists	162	207	45	42	87	\$36.71	Associate
29-1125 Recreational Therapists	192	248	56	53	109	\$19.18	Bachelor's
29-1126 Respiratory Therapists	1,063	1,324	261	392	653	\$24.81	Associate
29-1127 Speech and Language Pathologists	631	770	139	174	313	\$30.53	Master's
29-1129 Therapists, All Other	93	118	25	23	48	\$25.24	Bachelor's
29-1131 Veterinarians	836	1,077	241	230	471	\$32.76	1st Professional
29-1199 Health Diagnosing and Treating Practitioners, All Other	440	569	129	110	239	NA	1st Professional
29-2011 Medical and Clinical Laboratory Technologists	1,760	2,238	478	539	1,017	\$27.63	Postsecondary training
29-2012 Medical and Clinical Laboratory Technicians	1,239	1,609	370	384	754	\$18.62	Associate
29-2021 Dental Hygienists	3,032	3,957	925	298	1,223	\$35.39	Associate
29-2031 Cardiovascular Technologists and Technicians	526	665	139	111	250	\$25.89	Associate
29-2032 Diagnostic Medical Sonographers and Ultrasound	376	521	145	84	229	\$33.86	Associate
29-2033 Nuclear Medicine Technologists	191	250	59	41	100	\$34.05	Associate
29-2034 Radiologic, CAT, and MRI Technologists and Technicians	2,070	2,658	588	441	1,029	\$26.53	Associate
29-2041 Emergency Medical Technicians and Paramedics	1,340	1,692	352	174	526	\$16.81	Postsecondary training
29-2051 Dietetic Technicians	98	119	21	14	35	\$17.06	Moderate-term on-the-job training
29-2053 Psychiatric Technicians	389	631	242	66	308	\$18.54	Postsecondary training
29-2055 Surgical Technologists	853	1,087	234	126	360	\$19.81	Postsecondary training
29-2061 Licensed Practical and Licensed Vocational Nurses	2,691	3,309	618	654	1,272	\$20.43	Postsecondary training
29-2091 Orthotists and Prosthetists	61	70	9	11	20	\$33.64	Bachelor's
29-2099 Health Technologists and Technicians, All Other	1,035	1,292	257	211	468	\$18.98	Associate
29-9011 Occupational Health and Safety Specialists	641	725	84	148	232	\$27.60	Bachelor's
29-9012 Occupational Health and Safety Technicians	229	253	24	52	76	\$25.91	Bachelor's
29-9091 Athletic Trainers	146	187	41	36	77	\$37.425	Bachelor's
29-9099 Healthcare Practitioner and Technical Workers, All Other	668	842	174	137	311	\$18.94	Associate
31-2011 Occupational Therapist Assistants	144	186	42	21	63	\$21.19	Associate
31-2012 Occupational Therapist Aides	20	23	3	3	6	\$18.13	Moderate-term on-the-job training
31-2021 Physical Therapist Assistants	475	640	165	93	258	\$20.46	Associate
31-9011 Massage Therapists	412	549	137	93	230	\$22.99	Postsecondary training
31-9091 Dental Assistants	4,373	5,689	1,316	1,407	2,723	\$17.14	Moderate-term on-the-job training
31-9094 Medical Transcriptionists	1,587	2,043	456	336	792	\$16.11	Postsecondary training
<b>Service</b>							
33-1011 Supervisors and Managers of Correctional Officers	317	349	32	98	130	\$24.97	Related work experience
33-1012 Supervisors and Managers of Police and Detectives	1,200	1,339	139	419	558	\$34.63	Related work experience
33-1021 Supervisors and Managers of Fire Fighting and Prevention Workers	933	1,039	106	406	512	\$31.62	Related work experience
33-1099 Supervisors and Managers, Protective Service Workers, All	563	662	99	156	255	\$17.37	Related work experience
33-2011 Fire Fighters	3,421	3,830	409	1,052	1,461	\$22.88	Long-term on-the-job training
33-2021 Fire Inspectors and Investigators	143	160	17	43	60	\$32.41	Related work experience
33-2022 Forest Fire Inspectors and Prevention Specialists	72	79	7	22	29	\$17.37	Related work experience
33-3011 Bailiffs	51	56	5	11	16	\$18.42	Moderate-term on-the-job training
33-3012 Correctional Officers	3,535	3,911	376	772	1,148	\$21.31	Moderate-term on-the-job training

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33-3021 Detectives and Criminal Investigators	639	691	52	178	230	\$29.93	Related work experience
33-3031 Fish and Game Wardens	12	13	1	3	4	\$19.04	Associate
33-3041 Parking Enforcement Workers	174	192	18	34	52	\$16.20	Short-term on-the-job training
33-3051 Police and Sheriff's Patrol Officers	5,090	5,782	692	1,407	2,099	\$25.36	Long-term on-the-job training
33-3052 Transit and Railroad Police	57	65	8	12	20	NA	Long-term on-the-job training
33-9011 Animal Control Workers	74	82	8	54	62	\$17.87	Moderate-term on-the-job training
33-9099 Protective Service Workers, All Other	1,004	1,104	100	731	831	\$15.46	Short-term on-the-job training
35-1011 Chefs and Head Cooks	1,158	1,393	235	378	613	\$16.02	Postsecondary training
Supervisors and Managers of Landscaping and							
37-1012 Groundskeeping Workers	1,276	1,570	294	132	426	\$19.98	Related work experience
37-3012 Pesticide Handlers, Sprayers, and Applicators; Vegetation	1,418	1,601	183	329	512	\$17.25	Moderate-term on-the-job training
39-1011 Gaming Supervisors	193	289	96	51	147	\$20.63	Long-term on-the-job training
39-1021 Supervisors and Managers of Personal Service Workers	1,778	2,174	396	496	892	\$15.68	Related work experience
39-5094 Skin Care Specialists	193	251	58	43	101	\$18.33	Postsecondary training
39-6031 Flight Attendants	597	697	100	83	183	NA	Long-term on-the-job training
<b>Sales and Related</b>							
41-1011 Supervisors and Managers of Retail Sales Workers	15,944	18,406	2,462	3,086	5,548	\$16.80	Related work experience
41-1012 Supervisors and Managers of Non-Retail Sales Workers	4,568	5,086	518	911	1,429	\$29.80	Related work experience
41-3011 Advertising Sales Agents	1,833	1,991	158	371	529	\$20.30	Moderate-term on-the-job training
41-3021 Insurance Sales Agents	3,721	4,267	546	954	1,500	\$20.69	Bachelor's
41-3031 Securities, Commodities, and Financial Services Sales Agents	2,690	3,205	515	334	849	\$31.78	Bachelor's
41-3099 Sales Representatives, Services, All Other	6,345	7,231	886	1,292	2,178	\$20.45	Moderate-term on-the-job training
Wholesale and Manufacturing Sales Representatives;							
41-4011 Technical and Scientific	5,474	6,180	706	1,530	2,236	\$33.85	Moderate-term on-the-job training
Wholesale and Manufacturing Sales Representatives Non-							
41-4012 technical and Scientific	16,794	18,710	1,916	4,661	6,577	\$22.68	Moderate-term on-the-job training
41-9021 Real Estate Brokers	3,045	3,295	250	629	879	NA	Postsecondary training
41-9022 Real Estate Sales Agents	11,942	12,911	969	2,467	3,436	NA	Postsecondary training
41-9031 Sales Engineers	1,161	1,234	73	357	430	\$35.61	Bachelor's
41-9099 Sales and Related Workers, All Other	3,372	3,928	556	695	1,251	\$15.29	Short-term on-the-job training
<b>Office and Administrative Support</b>							
Supervisors and Managers of Office and Administrative							
43-1011 Support Workers	16,308	18,934	2,626	3,781	6,407	\$21.13	Related work experience
43-2099 Communications Equipment Operators, All Other	77	70	0	16	16	NA	Short-term on-the-job training
43-3051 Payroll and Timekeeping Clerks	2,447	2,778	331	691	1,022	\$16.50	Short-term on-the-job training
43-3061 Purchasing and Procurement Clerks	663	696	33	173	206	\$16.71	Moderate-term on-the-job training
43-4011 Brokerage Clerks	665	814	149	98	247	\$17.06	Moderate-term on-the-job training
43-4021 Correspondence Clerks	565	577	12	170	182	NA	Short-term on-the-job training
43-4031 Court, Municipal, and License Clerks	1,723	1,901	178	401	579	\$15.94	Short-term on-the-job training
43-4041 Credit Authorizers, Checkers, and Clerks	375	438	63	78	141	NA	Short-term on-the-job training
43-4061 Eligibility Interviewers, Government Programs	1,237	1,346	109	344	453	\$15.75	Moderate-term on-the-job training
43-4131 Loan Interviewers and Clerks	4,018	4,191	173	562	735	\$16.27	Short-term on-the-job training
43-4161 Human Resources Assistants, Except Payroll and	1,513	1,720	207	348	555	\$16.75	Short-term on-the-job training
43-5031 Police, Fire, and Ambulance Dispatchers	978	1,105	127	224	351	\$18.44	Moderate-term on-the-job training
43-5032 Dispatchers, Except Police, Fire, and Ambulance	2,751	3,086	335	627	962	\$15.67	Moderate-term on-the-job training
43-5041 Meter Readers, Utilities	568	529	0	173	173	\$16.88	Short-term on-the-job training
43-5051 Postal Service Clerks	1,017	916	0	255	255	\$21.89	Short-term on-the-job training
43-5052 Postal Service Mail Carriers	3,716	3,349	0	1,107	1,107	\$21.84	Short-term on-the-job training

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<b>Postal Service Mail Sorters, Processors, and Processing</b>							
43-5053 Machine Operators	1,875	1,692	0	471	471	\$21.45	Short-term on-the-job training
43-5061 Production, Planning, and Expediting Clerks	3,359	3,703	344	855	1,199	\$19.37	Related work experience
43-6011 Executive Secretaries and Administrative Assistants	15,892	18,434	2,542	3,287	5,829	\$17.60	Moderate-term on-the-job training
43-6012 Legal Secretaries	3,272	3,793	521	676	1,197	\$17.74	Postsecondary training
43-6013 Medical Secretaries	6,749	8,268	1,519	1,438	2,957	\$15.54	Moderate-term on-the-job training
43-9011 Computer Operators	894	841	0	185	185	\$16.34	Moderate-term on-the-job training
43-9031 Desktop Publishers	523	549	26	121	147	\$16.47	Postsecondary training
43-9041 Insurance Claims and Policy Processing Clerks	2,996	3,304	308	507	815	\$16.35	Moderate-term on-the-job training
43-9081 Proofreaders and Copy Markers	86	95	9	19	28	\$16.32	Short-term on-the-job training
43-9111 Statistical Assistants	233	268	35	40	75	\$19.04	Moderate-term on-the-job training
<b>Farming, Fishing, and Forestry</b>							
Supervisors and Managers of Farming, Fishing, and Forestry							
45-1011 Workers	2,151	2,355	204	517	721	\$19.09	Related work experience
45-4021 Fallers and Buckers	814	786	0	147	147	\$27.62	Moderate-term on-the-job training
45-4022 Logging Equipment Operators	2,077	2,034	0	378	378	\$17.51	Moderate-term on-the-job training
45-4023 Log Graders and Scalers	258	312	54	52	106	\$19.05	Moderate-term on-the-job training
45-4029 Logging Workers, All Other	1,644	1,606	0	392	392	\$16.22	Moderate-term on-the-job training
<b>Construction and Extraction</b>							
Supervisors and Managers of Construction Trades and							
47-1011 Extraction Workers	7,102	8,165	1,063	1,298	2,361	\$26.96	Related work experience
47-2011 Boilermakers	291	333	42	114	156	\$26.44	Long-term on-the-job training
47-2021 Brickmasons and Blockmasons	987	1,139	152	158	310	\$21.42	Long-term on-the-job training
47-2031 Carpenters	15,044	17,184	2,140	2,623	4,763	\$17.22	Long-term on-the-job training
47-2041 Carpet Installers	699	815	116	118	234	\$17.89	Moderate-term on-the-job training
47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles	281	326	45	47	92	\$22.78	Moderate-term on-the-job training
47-2044 Tile and Marble Setters	454	520	66	76	142	\$15.48	Long-term on-the-job training
47-2051 Cement Masons and Concrete Finishers	2,816	3,236	420	609	1,029	\$16.89	Long-term on-the-job training
47-2053 Terrazzo Workers and Finishers	24	27	3	5	8	NA	Long-term on-the-job training
47-2071 Paving, Surfacing, and Tamping Equipment Operators	717	804	87	109	196	\$19.45	Moderate-term on-the-job training
47-2072 Pile-Driver Operators	105	119	14	19	33	\$30.12	Postsecondary training
Operating Engineers and Other Construction Equipment							
47-2073 Operators	3,870	4,367	497	1,059	1,556	\$20.57	Moderate-term on-the-job training
47-2081 Drywall and Ceiling Tile Installers	2,041	2,344	303	475	778	\$20.19	Long-term on-the-job training
47-2082 Tapers	717	824	107	167	274	\$20.73	Moderate-term on-the-job training
47-2111 Electricians	7,042	7,888	846	1,476	2,322	\$27.72	Postsecondary training
47-2121 Glaziers	1,007	1,162	155	227	382	\$17.06	Long-term on-the-job training
47-2131 Insulation Workers, Floor, Ceiling, and Wall	890	1,027	137	289	426	\$15.39	Long-term on-the-job training
47-2141 Painters, Construction and Maintenance	5,222	5,979	757	853	1,610	\$15.40	Long-term on-the-job training
47-2142 Paperhangers	59	72	13	8	21	\$16.59	Moderate-term on-the-job training
47-2151 Pipelayers	435	491	56	106	162	\$20.46	Moderate-term on-the-job training
47-2152 Plumbers, Pipefitters, and Steamfitter	5,192	5,925	733	1,278	2,011	\$26.54	Postsecondary training
47-2161 Plasterers and Stucco Masons	352	405	53	69	122	\$17.57	Long-term on-the-job training
47-2171 Reinforcing Iron and Rebar Workers	127	146	19	27	46	\$33.86	Long-term on-the-job training
47-2211 Sheet Metal Workers	3,515	4,034	519	905	1,424	\$20.80	Postsecondary training
47-2221 Structural Iron and Steel Workers	846	967	121	177	298	\$23.92	Postsecondary training
47-3015 Pipelayer's, Plumber's, Pipefitter's, and Steamfitter's Helpers	245	282	37	109	146	\$16.77	Short-term on-the-job training
47-4011 Construction and Building Inspectors	1,524	1,794	270	374	644	\$25.95	Related work experience

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47-4021 Elevator Installers and Repairers	296	341	45	79	124	\$43.54	Postsecondary training
47-4041 Hazardous Materials Removal Workers	1,334	1,614	280	389	669	\$16.89	Moderate-term on-the-job training
47-4051 Highway Maintenance Workers	2,188	2,415	227	333	560	\$17.44	Moderate-term on-the-job training
47-4061 Rail-Track Laying and Maintenance Equipment Operators	264	275	11	61	72	\$20.25	Moderate-term on-the-job training
47-4071 Septic Tank Servicers and Sewer Pipe Cleaners	320	374	54	93	147	\$17.88	Moderate-term on-the-job training
47-4099 Construction and Related Workers, All Other	969	1,086	117	164	281	\$17.91	Moderate-term on-the-job training
47-5021 Earth Drillers, Water and Construction	383	439	56	87	143	\$15.91	Moderate-term on-the-job training
47-5031 Blasters, Explosives Workers, and Ordnance Handling Experts	49	13	0	12	12	\$21.73	Moderate-term on-the-job training
47-5099 Extraction Workers, All Other	49	51	2	12	14	NA	Moderate-term on-the-job training
<b>Installation, Maintenance, and Repair</b>							
Supervisors and Managers of Mechanics, Installers, and							
49-1011 Repairers	4,868	5,422	554	1,289	1,843	\$25.86	Related work experience
49-2011 Computer, Automated Teller, and Office Machine Repairers	1,574	1,771	197	203	400	\$17.13	Postsecondary training
49-2021 Radio Mechanics	244	276	32	54	86	\$16.73	Postsecondary training
Telecommunications Equipment Installers and Repairers,							
49-2022 Except Line Installers	2,271	2,319	48	475	523	\$25.24	Postsecondary training
49-2091 Avionics Technicians	106	122	16	28	44	\$20.73	Postsecondary training
Electrical and Electronics Installers and Repairers,							
49-2093 Transportation Equipment	214	218	4	53	57	\$22.39	Postsecondary training
Electrical and Electronics Repairers, Commercial and							
49-2094 Industrial Equipment	1,287	1,298	11	284	295	\$25.36	Postsecondary training
Electrical and Electronics Repairers, Powerhouse, Substation,							
49-2095 and Relay	284	311	27	65	92	\$31.76	Postsecondary training
Electronic Home Entertainment Equipment Installers and							
49-2097 Repairers	353	381	28	72	100	\$15.59	Postsecondary training
49-2098 Security and Fire Alarm Systems Installers	507	576	69	103	172	\$21.89	Long-term on-the-job training
49-3011 Aircraft Mechanics and Service Technicians	1,198	1,338	140	299	439	\$24.97	Postsecondary training
49-3021 Automotive Body and Related Repairers	1,761	2,063	302	388	690	\$17.50	Postsecondary training
49-3022 Automotive Glass Installers and Repairers	233	273	40	48	88	\$19.53	Moderate-term on-the-job training
49-3023 Automotive Service Technicians and Mechanics	6,728	7,780	1,052	1,930	2,982	\$17.20	Postsecondary training
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	4,167	4,668	501	1,136	1,637	\$19.35	Long-term on-the-job training
49-3041 Farm Equipment Mechanics	1,420	1,573	153	325	478	\$17.28	Long-term on-the-job training
49-3042 Mobile Heavy Equipment Mechanics, Except Engines	2,113	2,318	205	481	686	\$20.45	Long-term on-the-job training
49-3043 Rail Car Repairers	258	274	16	58	74	\$20.88	Long-term on-the-job training
49-3092 Recreational Vehicle Service Technicians	553	628	75	251	326	\$19.62	Postsecondary training
49-9011 Mechanical Door Repairers	313	363	50	84	134	\$16.86	Moderate-term on-the-job training
Control and Valve Installers and Repairers, Except Mechanical							
49-9012 Door	494	529	35	128	163	\$23.08	Moderate-term on-the-job training
Heating, Air Conditioning, and Refrigeration Mechanics and							
49-9021 Installers	2,762	3,126	364	391	755	\$19.16	Long-term on-the-job training
49-9041 Industrial Machinery Mechanics	4,488	4,598	110	915	1,025	\$20.85	Postsecondary training
49-9042 Maintenance and Repair Workers, General	13,398	15,215	1,817	2,747	4,564	\$15.82	Long-term on-the-job training
49-9044 Millwrights	1,582	1,731	149	402	551	\$21.00	Postsecondary training
49-9051 Electrical Power-Line Installers and Repairers	1,697	1,815	118	557	675	\$33.64	Postsecondary training
49-9052 Telecommunications Line Installers and Repairers	1,679	1,860	181	481	662	\$17.71	Long-term on-the-job training
49-9061 Camera and Photographic Equipment Repairers	83	88	5	24	29	\$15.37	Moderate-term on-the-job training
49-9062 Medical Equipment Repairers	527	609	82	159	241	\$21.94	Postsecondary training
49-9064 Watch Repairers	41	42	1	12	13	NA	Long-term on-the-job training

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49-9069 Precision Instrument and Equipment Repairers, All Other	383	422	39	113	152	\$21.38	Long-term on-the-job training
49-9091 Coin, Vending, and Amusement Machine Servicers and	396	423	27	99	126	\$19.32	Moderate-term on-the-job training
49-9095 Manufactured Building and Mobile Home Installers	229	252	23	58	81	\$18.60	Moderate-term on-the-job training
49-9096 Riggers	246	249	3	56	59	\$17.55	Moderate-term on-the-job training
49-9097 Signal and Track Switch Repairers	120	120	0	42	42	\$25.42	Postsecondary training
<b>Production</b>							
51-1011 Supervisors and Managers of Production and Operating	9,280	9,756	476	1,996	2,472	\$22.27	Related work experience
51-2011 Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	134	139	5	37	42	\$20.99	Long-term on-the-job training
51-2041 Structural Metal Fabricators and Fitters	2,090	2,297	207	515	722	\$16.39	Long-term on-the-job training
51-3021 Butchers and Meat Cutters	1,728	1,966	238	405	643	\$16.31	Long-term on-the-job training
51-4011 Computer-Controlled Machine Tool Operators, Metal and	2,156	2,320	164	369	533	\$16.79	Long-term on-the-job training
51-4012 Numerical Tool and Process Control Programmers	334	355	21	57	78	\$24.64	Postsecondary training
51-4022 Forging Machine Setters, Operators, and Tenders, Metal and Plastic	104	106	2	15	17	\$20.67	Moderate-term on-the-job training
51-4023 Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	184	192	8	42	50	\$17.86	Moderate-term on-the-job training
51-4032 Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	332	357	25	101	126	\$15.81	Moderate-term on-the-job training
51-4034 Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	387	425	38	78	116	\$20.43	Moderate-term on-the-job training
51-4035 Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	164	178	14	29	43	\$17.24	Moderate-term on-the-job training
51-4041 Machinists	3,470	3,775	305	844	1,149	\$19.05	Long-term on-the-job training
51-4061 Model Makers, Metal and Plastic	66	69	3	22	25	\$27.81	Long-term on-the-job training
51-4062 Patternmakers, Metal and Plastic	59	63	4	19	23	\$15.42	Long-term on-the-job training
51-4111 Tool and Die Makers	543	564	21	125	146	\$22.72	Postsecondary training
51-4121 Welders, Cutters, Solderers, and Brazers	5,580	6,043	463	1,641	2,104	\$15.77	Long-term on-the-job training
51-4191 Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	274	296	22	89	111	\$15.77	Moderate-term on-the-job training
51-4192 Lay-Out Workers, Metal and Plastic	74	84	10	12	22	\$18.93	Long-term on-the-job training
51-4194 Tool Grinders, Filers, and Sharpeners	674	688	14	221	235	\$17.85	Long-term on-the-job training
51-4199 Metal Workers and Plastic Workers, All Other	741	797	56	182	238	\$16.29	Moderate-term on-the-job training
51-5021 Job Printers	310	293	0	71	71	\$15.70	Long-term on-the-job training
51-5022 Prepress Technicians and Workers	882	858	0	204	204	\$16.83	Long-term on-the-job training
51-5023 Printing Press Machine Operators	2,251	2,257	6	523	529	\$16.09	Moderate-term on-the-job training
51-6092 Fabric and Apparel Patternmakers	142	172	30	73	103	\$17.06	Long-term on-the-job training
51-7032 Patternmakers, Wood	60	66	6	18	24	\$24.07	Long-term on-the-job training
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing	3,568	3,487	0	926	926	\$15.36	Moderate-term on-the-job training
51-8012 Power Distributors and Dispatchers	173	178	5	47	52	\$36.60	Long-term on-the-job training
51-8013 Power Plant Operators	102	107	5	28	33	NA	Long-term on-the-job training
51-8021 Stationary Engineers and Boiler Operators	310	331	21	59	80	\$22.03	Long-term on-the-job training
51-8031 Water and Liquid Waste Treatment Plant and System	1,199	1,328	129	434	563	\$20.52	Postsecondary training
51-8091 Chemical Plant and System Operators	47	46	0	14	14	\$25.37	Long-term on-the-job training
51-8092 Gas Plant Operators	1	1	0	0	0	NA	Long-term on-the-job training
51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers	90	92	2	28	30	\$23.61	Long-term on-the-job training
51-8099 Plant and System Operators, All Other	202	216	14	65	79	\$24.28	Long-term on-the-job training

\* Occupations with declining employment have zero growth openings  
NA Median wage unavailable, but estimate to be above state median  
Annual wages represent a partial work year, e.g. school year



## High-Wage Occupations

Occupations paying more than the 2007 median wage for the state  
Oregon Statewide (Median wage \$15.22)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
51-9011 Chemical Equipment Operators and Tenders Separating, Filtering, Clarifying, Precipitating, and Still	267	269	2	86	88	\$20.65	Moderate-term on-the-job training
51-9012 Machine Setters, Operators, and Tenders Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	766	847	81	258	339	\$17.90	Moderate-term on-the-job training
51-9021 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	665	688	23	176	199	\$16.00	Moderate-term on-the-job training
51-9051 Dental Laboratory Technicians	585	602	17	142	159	\$17.31	Moderate-term on-the-job training
51-9081 Medical Appliance Technicians	838	973	135	198	333	\$17.31	Long-term on-the-job training
51-9082 Painters, Transportation Equipment	76	84	8	18	26	\$16.78	Long-term on-the-job training
51-9122 Semiconductor Processors	978	1,093	115	271	386	\$17.50	Moderate-term on-the-job training
51-9141 Etchers and Engravers	3,801	3,688	0	829	829	\$15.28	Associate
51-9194 Paper Goods Machine Setters, Operators, and Tenders	123	138	15	36	51	NA	Long-term on-the-job training
51-9196	1,424	1,309	0	290	290	\$20.67	Moderate-term on-the-job training
<b>Transportation and Material Moving</b>							
53-1011 Aircraft Cargo Handling Supervisors	72	84	12	18	30	\$24.16	Related work experience
53-1021 Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand Supervisors and Managers of Transportation and Material-	2,217	2,572	355	563	918	\$17.86	Related work experience
53-1031 Moving Machine and Vehicle Operators	3,069	3,393	324	760	1,084	\$22.58	Related work experience
53-2011 Airline Pilots, Copilots, and Flight Engineers	495	562	67	141	208	NA	Postsecondary training
53-2012 Commercial Pilots, Exclude Airline Pilots	626	738	112	182	294	\$50.412	Postsecondary training
53-2021 Air Traffic Controllers	200	221	21	54	75	\$50.96	Long-term on-the-job training
53-3021 Bus Drivers, Transit and Intercity	2,979	3,364	385	690	1,075	\$15.61	Moderate-term on-the-job training
53-3032 Truck Drivers, Heavy and Tractor-Trailer	25,480	27,887	2,407	4,358	6,765	\$16.49	Postsecondary training
53-4011 Locomotive Engineers	479	471	0	139	139	\$31.56	Moderate-term on-the-job training
53-4013 Rail Yard Engineers, Dinkey Operators, and Hostlers	87	95	8	27	35	\$16.83	Moderate-term on-the-job training
53-4021 Railroad Brake, Signal, and Switch Operators	370	363	0	39	39	\$26.93	Moderate-term on-the-job training
53-4031 Railroad Conductors and Yardmasters	498	491	0	134	134	\$32.95	Moderate-term on-the-job training
53-4041 Subway and Streetcar Operators	161	187	26	44	70	NA	Moderate-term on-the-job training
53-4099 Rail Transportation Workers, All Other	11	11	0	3	3	\$21.11	Moderate-term on-the-job training
53-5011 Sailors and Marine Oilers	472	494	22	170	192	\$17.68	Short-term on-the-job training
53-5021 Captains, Mates, and Pilots of Water Vessels	349	349	0	99	99	\$29.85	Long-term on-the-job training
53-5022 Motorboat Operators	67	78	11	21	32	\$20.53	Moderate-term on-the-job training
53-6011 Bridge and Lock Tenders	18	19	1	6	7	\$16.71	Short-term on-the-job training
53-6041 Traffic Technicians	80	93	13	26	39	\$24.16	Short-term on-the-job training
53-6051 Transportation Inspectors	347	369	22	85	107	\$19.24	Related work experience
53-7021 Crane and Tower Operators	729	779	50	165	215	\$18.07	Moderate-term on-the-job training
53-7032 Excavating and Loading Machine and Dragline Operators	1,608	1,824	216	472	688	\$15.76	Moderate-term on-the-job training
53-7041 Hoist and Winch Operators	316	311	0	99	99	\$18.35	Moderate-term on-the-job training
53-7072 Pump Operators, Except Wellhead Pumpers	104	114	10	25	35	\$19.38	Moderate-term on-the-job training
53-7081 Refuse and Recyclable Material Collectors	1,632	1,901	269	453	722	\$17.46	Short-term on-the-job training
53-7121 Tank Car, Truck, and Ship Loaders	348	366	18	99	117	\$18.41	Moderate-term on-the-job training
53-7199 Material Moving Workers, All Other	1,138	1,251	113	320	433	NA	Short-term on-the-job training

\* Occupations with declining employment have zero growth openings  
NA Median wage unavailable, but estimate to be above state median  
Annual wages represent a partial work year, e.g. school year



# High-Demand Occupations

Occupations with more than the median number of total 2006-2016 openings for the state  
Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
<b>Management, Business, and Financial</b>							
11-1011 Chief Executives	1,591	1,769	178	317	495	NA	Bachelor's
11-1021 General and Operations Managers	20,549	23,533	2,984	4,157	7,141	\$39.66	Bachelor's
11-2021 Marketing Managers	3,016	3,666	650	616	1,266	\$39.66	Bachelor's
11-2022 Sales Managers	3,534	4,001	467	695	1,162	\$44.16	Bachelor's
11-2031 Public Relations Managers	1,061	1,242	181	199	380	\$28.12	Bachelor's
11-3011 Administrative Services Managers	1,845	2,146	301	388	689	\$31.49	Bachelor's
11-3021 Computer and Information Systems Managers	2,878	3,302	424	561	985	\$45.14	Bachelor's
11-3031 Financial Managers	4,389	4,966	577	671	1,248	\$43.82	Bachelor's
11-3049 Human Resources Managers, All Other	1,324	1,517	193	240	433	\$39.64	Bachelor's
11-3051 Industrial Production Managers	2,774	2,877	103	546	649	\$36.69	Bachelor's
11-3061 Purchasing Managers	1,042	1,147	105	238	343	\$36.84	Bachelor's
11-3071 Transportation, Storage, and Distribution Managers	1,422	1,598	176	295	471	\$33.41	Bachelor's
11-9011 Farm, Ranch, and Other Agricultural Managers	1,404	1,538	134	253	387	\$27.69	Related work experience
11-9021 Construction Managers	3,495	3,987	492	678	1,170	\$34.70	Related work experience
11-9032 Elementary and Secondary School Administrators	2,129	2,337	208	554	762	\$81,910	Bachelor's
11-9033 Postsecondary School Administrators	1,608	1,868	260	431	691	\$35.90	Master's
11-9041 Engineering Managers	3,365	3,519	154	686	840	\$52.29	Bachelor's
11-9051 Food Service Managers	2,354	2,812	458	421	879	\$21.14	Related work experience
11-9111 Medical and Health Services Managers	2,904	3,668	764	640	1,404	\$37.15	Bachelor's
11-9141 Property, Real Estate, and Community Association Managers	3,694	4,124	430	730	1,160	\$18.41	Moderate-term on-the-job training
11-9151 Social and Community Service Managers	1,997	2,378	381	420	801	\$24.27	Bachelor's
11-9199 Managers, All Other	8,125	9,183	1,058	1,686	2,744	\$32.69	Bachelor's
13-1022 Wholesale and Retail Buyers, Except Farm Products	2,711	3,138	427	765	1,192	\$19.78	Bachelor's
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm	3,231	3,483	252	835	1,087	\$22.14	Bachelor's
13-1031 Claims Investigators, Examiners, and Adjusters	3,318	3,605	287	427	714	\$24.36	Long-term on-the-job training
13-1041 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	2,392	2,559	167	582	749	\$22.19	Bachelor's
13-1051 Cost Estimators	3,512	3,970	458	839	1,297	\$25.27	Moderate-term on-the-job training
13-1071 Employment, Recruitment, and Placement Specialists	2,231	2,597	366	370	736	\$19.48	Bachelor's
13-1072 Compensation, Benefits, and Job Analysis Specialists	950	1,099	149	157	306	\$21.43	Bachelor's
13-1073 Training and Development Specialists	2,519	2,876	357	413	770	\$22.37	Bachelor's
13-1079 Human Resources, Training, and Labor Relations Specialists, All Other	3,830	4,651	821	722	1,543	\$25.98	Bachelor's
13-1111 Management Analysts	3,390	3,825	435	494	929	\$27.09	Bachelor's
13-1199 Business Operations Specialists, All Other	12,841	14,512	1,671	2,328	3,999	\$22.70	Bachelor's
13-2011 Accountants and Auditors	11,511	12,947	1,436	2,308	3,744	\$25.18	Bachelor's
13-2021 Appraisers and Assessors of Real Estate	1,087	1,223	136	248	384	\$24.16	Postsecondary training
13-2051 Financial Analysts	1,484	1,694	210	234	444	\$31.99	Bachelor's
13-2052 Personal Financial Advisors	613	821	208	93	301	\$25.04	Bachelor's
13-2072 Loan Officers	5,262	6,124	862	915	1,777	\$24.70	Bachelor's
13-2082 Tax Preparers	1,435	1,534	99	244	343	\$16.48	Postsecondary training
13-2099 Financial Specialists, All Other	1,735	1,984	249	326	575	\$24.22	Bachelor's
<b>Professional and Related</b>							
15-1021 Computer Programmers	3,237	3,736	499	823	1,322	\$31.16	Bachelor's
15-1031 Computer Software Engineers, Applications	7,433	8,329	896	779	1,675	\$40.66	Bachelor's
15-1032 Computer Software Engineers, Systems Software	2,038	2,287	249	214	463	\$45.49	Bachelor's
15-1041 Computer Support Specialists	7,867	9,010	1,143	1,038	2,181	\$19.98	Postsecondary training
15-1051 Computer Systems Analysts	3,394	3,896	502	413	915	\$32.66	Bachelor's
15-1061 Database Administrators	1,113	1,287	174	124	298	\$33.04	Bachelor's

\* Occupations with declining employment have zero growth openings  
NA Median wage not available  
Annual wages represent a partial work year, e.g. school year



# High-Demand Occupations

Occupations with more than the median number of total 2006-2016 openings for the state  
Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
15-1071 Network and Computer Systems Administrators	3,096	4,102	1,006	399	1,405	\$28.53	Bachelor's
15-1081 Network Systems and Data Communications Analysts	2,588	3,347	759	349	1,108	\$28.83	Bachelor's
15-1099 Computer Specialists, All Other	5,203	5,840	637	625	1,262	\$29.18	Postsecondary training
17-1011 Architects, Except Landscape and Naval	1,756	2,169	413	224	637	\$26.34	Bachelor's
17-1022 Surveyors	780	938	158	294	452	\$28.67	Bachelor's
17-2051 Civil Engineers	2,931	3,411	480	505	985	\$32.45	Bachelor's
17-2061 Computer Hardware Engineers	3,218	3,200	0	535	535	\$42.47	Bachelor's
17-2071 Electrical Engineers	979	1,097	118	204	322	\$37.86	Bachelor's
17-2072 Electronics Engineers, Except Computer	2,085	2,267	182	428	610	\$36.39	Bachelor's
17-2112 Industrial Engineers	2,987	3,034	47	729	776	\$35.60	Bachelor's
17-2141 Mechanical Engineers	2,829	3,123	294	814	1,108	\$34.34	Bachelor's
17-2199 Engineers, All Other	1,723	1,868	145	342	487	\$36.74	Bachelor's
17-3011 Architectural and Civil Drafters	1,656	1,997	341	514	855	\$19.34	Postsecondary training
17-3013 Mechanical Drafters	818	899	81	241	322	\$23.33	Postsecondary training
17-3022 Civil Engineering Technicians	1,173	1,338	165	263	428	\$23.49	Associate
17-3023 Electrical and Electronic Engineering Technicians	3,109	3,262	153	667	820	\$22.64	Associate
17-3026 Industrial Engineering Technicians	4,017	3,973	0	836	836	\$20.82	Associate
17-3029 Engineering Technicians, All Other	1,191	1,252	61	294	355	\$22.72	Associate
17-3031 Surveying and Mapping Technicians	1,366	1,638	272	547	819	\$18.27	Moderate-term on-the-job training
19-1023 Zoologists and Wildlife Biologists	1,162	1,295	133	385	518	\$26.66	Master's
19-1042 Medical Scientists, Except Epidemiologists	1,107	1,265	158	209	367	\$25.83	Doctorate
19-2041 Environmental Scientists and Specialists, Including Health	994	1,112	118	187	305	\$28.77	Bachelor's
19-3021 Market Research Analysts	1,524	1,700	176	418	594	\$29.51	Bachelor's
19-3031 Clinical, Counseling, and School Psychologists	975	1,190	215	236	451	\$28.85	Master's
19-3051 Urban and Regional Planners	1,090	1,240	150	389	539	\$29.26	Master's
19-4021 Biological Technicians	1,595	1,773	178	285	463	\$15.43	Associate
19-4093 Forest and Conservation Technicians	2,866	2,935	69	683	752	\$15.37	Moderate-term on-the-job training
19-4099 Life, Physical, and Social Science Technicians, All Other	1,957	2,232	275	493	768	\$16.81	Associate
21-1011 Substance Abuse and Behavioral Disorder Counselors	1,520	1,869	349	387	736	\$16.47	Associate
21-1012 Educational, Vocational, and School Counselors	2,680	3,006	326	649	975	\$23.56	Master's
21-1014 Mental Health Counselors	1,691	2,104	413	433	846	\$21.62	Master's
21-1015 Rehabilitation Counselors	2,140	2,566	426	538	964	\$13.37	Master's
21-1021 Child, Family, and School Social Workers	3,284	3,779	495	604	1,099	\$17.94	Bachelor's
21-1022 Medical and Public Health Social Workers	1,143	1,397	254	217	471	\$23.35	Bachelor's
21-1023 Mental Health and Substance Abuse Social Workers	1,862	2,262	400	353	753	\$15.72	Master's
21-1029 Social Workers, All Other	1,737	1,983	246	347	593	\$20.88	Bachelor's
21-1092 Probation Officers and Correctional Treatment Specialists	1,766	1,964	198	328	526	\$22.16	Bachelor's
21-1093 Social and Human Service Assistants	4,932	5,798	866	945	1,811	\$13.39	Moderate-term on-the-job training
21-1099 Community and Social Service Specialists, All Other	1,111	1,258	147	221	368	\$16.58	Moderate-term on-the-job training
21-2011 Clergy	3,773	4,376	603	836	1,439	\$21.00	Bachelor's
21-2021 Directors, Religious Activities and Education	1,541	1,779	238	183	421	\$15.61	Bachelor's
23-1011 Lawyers	4,745	5,428	683	654	1,337	\$41.45	1st Professional
23-2011 Paralegals and Legal Assistants	1,752	2,008	256	151	407	\$19.62	Associate
23-2093 Title Examiners, Abstractors, and Searchers	1,467	1,637	170	170	340	\$21.75	Moderate-term on-the-job training
25-1191 Graduate Teaching Assistants	2,068	2,385	317	503	820	\$35.691	Bachelor's
25-1199 Postsecondary Teachers, Except Graduate Teaching Assistants	17,541	20,170	2,629	4,258	6,887	\$66.537	Master's
25-2011 Preschool Teachers, Except Special Education	4,715	5,368	653	599	1,252	\$10.85	Postsecondary training
25-2012 Kindergarten Teachers, Except Special Education	1,737	1,907	170	217	387	\$38.082	Bachelor's
25-2021 Elementary School Teachers, Except Special Education	15,834	17,189	1,355	3,644	4,999	\$47.489	Bachelor's
25-2022 Middle School Teachers, Except Special and Vocational	7,426	8,025	599	1,705	2,304	\$47.575	Bachelor's

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# High-Demand Occupations

Occupations with more than the median number of total 2006-2016 openings for the state  
Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
25-2031 Secondary School Teachers, Except Special and Vocational Education	10,557	11,450	893	3,096	3,989	\$48,081	Bachelor's
25-2041 Special Education Teachers, Preschool, Kindergarten, and Elementary School	2,052	2,219	167	509	676	\$51,575	Bachelor's
25-2043 Special Education Teachers, Secondary School	1,548	1,673	125	384	509	\$50,440	Bachelor's
25-3021 Self-Enrichment Education Teachers	1,431	1,727	296	194	490	\$14.50	Related work experience
25-3099 Teachers and Instructors, All Other	3,970	4,438	468	518	986	\$17.91	Bachelor's
25-4021 Librarians	1,617	1,803	186	408	594	\$25.78	Master's
25-4031 Library Technicians	1,389	1,550	161	543	704	\$14.93	Moderate-term on-the-job training
25-9031 Instructional Coordinators	1,581	1,797	216	257	473	\$28.22	Bachelor's
25-9041 Teacher Assistants	19,009	20,763	1,754	3,841	5,595	\$25.621	Related work experience
25-9099 Education, Training, and Library, All Other	13,240	15,073	1,833	2,156	3,989	\$10.83	Bachelor's
27-1024 Graphic Designers	2,438	2,816	378	351	729	\$18.44	Associate
27-1026 Merchandise Displayers and Window Trimmers	1,494	1,722	228	215	443	\$12.73	Moderate-term on-the-job training
27-2022 Coaches and Scouts	2,232	2,795	563	482	1,045	\$29,911	Long-term on-the-job training
27-2042 Musicians and Singers	1,172	1,342	170	263	433	NA	Long-term on-the-job training
27-3031 Public Relations Specialists	1,818	2,075	257	279	536	\$23.18	Bachelor's
27-3041 Editors	1,149	1,257	108	291	399	\$21.86	Bachelor's
27-3042 Technical Writers	691	766	75	210	285	\$28.13	Bachelor's
27-4011 Audio and Video Equipment Technicians	742	836	94	193	287	\$17.10	Long-term on-the-job training
<b>Health Care</b>							
29-1021 Dentists, General	898	1,168	270	173	443	NA	1st Professional
29-1051 Pharmacists	3,169	3,696	527	665	1,192	\$46.94	1st Professional
29-1060 Physicians and Surgeons	6,751	8,927	2,176	1,048	3,224	NA	1st Professional
29-1071 Physician Assistants	613	967	354	121	475	\$37.79	Bachelor's
29-1111 Registered Nurses	27,988	34,921	6,933	6,582	13,515	\$31.74	Associate
29-1122 Occupational Therapists	911	1,150	239	139	378	\$30.01	Bachelor's
29-1123 Physical Therapists	1,942	2,584	642	223	865	\$31.52	Master's
29-1126 Respiratory Therapists	1,063	1,324	261	392	653	\$24.81	Associate
29-1127 Speech and Language Pathologists	631	770	139	174	313	\$30.53	Master's
29-1131 Veterinarians	836	1,077	241	230	471	\$32.76	1st Professional
29-2011 Medical and Clinical Laboratory Technologists	1,760	2,238	478	539	1,017	\$27.63	Postsecondary training
29-2012 Medical and Clinical Laboratory Technicians	1,239	1,609	370	384	754	\$18.62	Associate
29-2021 Dental Hygienists	3,032	3,957	925	298	1,223	\$35.39	Associate
29-2034 Radiologic, CAT, and MRI Technologists and Technicians	2,070	2,658	588	441	1,029	\$26.53	Associate
29-2041 Emergency Medical Technicians and Paramedics	1,340	1,692	352	174	526	\$16.81	Postsecondary training
29-2052 Pharmacy Technicians	3,959	4,584	625	557	1,182	\$14.73	Postsecondary training
29-2053 Psychiatric Technicians	389	631	242	66	308	\$18.54	Postsecondary training
29-2055 Surgical Technologists	853	1,087	234	126	360	\$19.81	Postsecondary training
29-2056 Veterinary Technologists and Technicians	1,163	1,489	326	173	499	\$14.57	Moderate-term on-the-job training
29-2061 Licensed Practical and Licensed Vocational Nurses	2,691	3,309	618	654	1,272	\$20.43	Postsecondary training
29-2071 Medical Records and Health Information Technicians	2,455	3,192	737	404	1,141	\$14.21	Postsecondary training
29-2081 Opticians, Dispensing	760	1,015	255	156	411	\$14.40	Long-term on-the-job training
29-2099 Health Technologists and Technicians, All Other	1,035	1,292	257	211	468	\$18.98	Associate
29-9099 Healthcare Practitioner and Technical Workers, All Other	668	842	174	137	311	\$18.94	Associate
31-1011 Home Health Aides	8,698	11,840	3,142	1,345	4,487	\$9.40	Short-term on-the-job training
31-1012 Nursing Aides, Orderlies, and Attendants	12,845	15,964	3,119	1,887	5,006	\$11.48	Short-term on-the-job training
31-2022 Physical Therapist Aides	543	738	195	107	302	\$11.09	Moderate-term on-the-job training
31-9091 Dental Assistants	4,373	5,689	1,316	1,407	2,723	\$17.14	Moderate-term on-the-job training
31-9092 Medical Assistants	5,825	7,936	2,111	1,273	3,384	\$14.70	Moderate-term on-the-job training

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# High-Demand Occupations

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Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
31-9093 Medical Equipment Preparers	863	1,073	210	179	389	\$12.96	Short-term on-the-job training
31-9094 Medical Transcriptionists	1,587	2,043	456	336	792	\$16.11	Postsecondary training
31-9096 Veterinary Assistants and Laboratory Animal Caretakers	1,058	1,350	292	223	515	\$10.26	Short-term on-the-job training
31-9099 Healthcare Support Workers, All Other	2,769	3,466	697	577	1,274	\$14.38	Short-term on-the-job training
<b>Service</b>							
33-1012 Supervisors and Managers of Police and Detectives	1,200	1,339	139	419	558	\$34.63	Related work experience
33-1021 Supervisors and Managers of Fire Fighting and Prevention	933	1,039	106	406	512	\$31.62	Related work experience
33-2011 Fire Fighters	3,421	3,830	409	1,052	1,461	\$22.88	Long-term on-the-job training
33-3012 Correctional Officers	3,535	3,911	376	772	1,148	\$21.31	Moderate-term on-the-job training
33-3051 Police and Sheriff's Patrol Officers	5,090	5,782	692	1,407	2,099	\$25.36	Long-term on-the-job training
33-9032 Security Guards	7,202	8,205	1,003	1,676	2,679	\$10.43	Short-term on-the-job training
33-9091 Crossing Guards Lifeguards, Ski Patrol, and Other Recreational Protective	1,666	2,065	399	600	999	\$11.75	Short-term on-the-job training
33-9092 Service Workers	1,642	1,884	242	1,222	1,464	\$8.76	Short-term on-the-job training
33-9099 Protective Service Workers, All Other	1,004	1,104	100	731	831	\$15.46	Short-term on-the-job training
35-1011 Chefs and Head Cooks	1,158	1,393	235	378	613	\$16.02	Postsecondary training
35-1012 Supervisors and Managers of Food Preparation and Serving							
Workers	9,535	11,341	1,806	2,483	4,289	\$14.13	Related work experience
35-2011 Cooks, Fast Food	7,076	8,367	1,291	2,390	3,681	\$8.66	Short-term on-the-job training
35-2012 Cooks, Institution and Cafeteria	4,742	5,667	925	1,611	2,536	\$10.99	Moderate-term on-the-job training
35-2014 Cooks, Restaurant	13,485	16,200	2,715	4,595	7,310	\$10.47	Moderate-term on-the-job training
35-2015 Cooks, Short Order	1,454	1,724	270	492	762	\$9.48	Short-term on-the-job training
35-2021 Food Preparation Workers	10,174	12,042	1,868	3,930	5,798	\$9.39	Short-term on-the-job training
35-3011 Bartenders	7,376	8,520	1,144	3,137	4,281	\$9.39	Short-term on-the-job training
35-3021 Combined Food Preparation and Serving Workers, Including							
Fast Food	33,639	39,649	6,010	15,882	21,892	\$8.66	Short-term on-the-job training
Counter Attendants in Cafeterias, Food Concessions, and							
Coffee Shops	9,952	11,721	1,769	7,072	8,841	\$8.85	Short-term on-the-job training
35-3031 Waiters and Waitresses	27,367	32,895	5,528	15,503	21,031	\$9.36	Short-term on-the-job training
35-3041 Food Servers, Nonrestaurant	2,944	3,802	858	1,130	1,988	\$8.76	Short-term on-the-job training
35-9011 Dining Room and Cafeteria Attendants and Bartender Helpers	4,552	5,554	1,002	1,689	2,691	\$8.66	Short-term on-the-job training
35-9021 Dishwashers	7,646	9,219	1,573	2,847	4,420	\$8.69	Short-term on-the-job training
35-9031 Hosts and Hostesses in Restaurants, Lounges, and Coffee	3,612	4,361	749	1,267	2,016	\$8.79	Short-term on-the-job training
35-9099 Food Preparation and Serving Workers, All Other	2,148	2,542	394	730	1,124	\$8.99	Short-term on-the-job training
37-1011 Supervisors and Managers of Housekeeping and Janitorial							
Supervisors and Managers of Landscaping and							
37-1012 Groundskeeping Workers	1,276	1,570	294	132	426	\$19.98	Related work experience
37-2011 Janitors and Cleaners	23,120	27,114	3,994	4,766	8,760	\$10.61	Short-term on-the-job training
37-2012 Maids and Housekeeping Cleaners	11,612	13,981	2,369	2,686	5,055	\$8.81	Short-term on-the-job training
37-2021 Pest Control Workers	932	1,163	231	158	389	\$15.08	Moderate-term on-the-job training
37-3011 Landscaping and Groundskeeping Workers	11,267	13,772	2,505	2,725	5,230	\$10.80	Short-term on-the-job training
37-3012 Pesticide Handlers, Sprayers, and Applicators; Vegetation	1,418	1,601	183	329	512	\$17.25	Moderate-term on-the-job training
37-3013 Tree Trimmers and Pruners	2,133	2,501	368	504	872	\$14.94	Short-term on-the-job training
39-1021 Supervisors and Managers of Personal Service Workers	1,778	2,174	396	496	892	\$15.68	Related work experience
39-2021 Nonfarm Animal Caretakers	1,701	2,150	449	479	928	\$10.37	Short-term on-the-job training
39-3011 Gaming Dealers	566	864	298	226	524	\$12.14	Short-term on-the-job training
39-3031 Ushers, Lobby Attendants, and Ticket Takers	1,342	1,556	214	826	1,040	\$8.95	Short-term on-the-job training
39-3091 Amusement and Recreation Attendants	2,961	3,679	718	956	1,674	\$8.83	Short-term on-the-job training
39-3099 Entertainment Attendants and Related Workers, All Other	1,055	1,223	168	347	515	\$9.07	Short-term on-the-job training
39-5012 Hairdressers, Hairstylists, and Cosmetologists	3,655	4,205	550	757	1,307	\$10.03	Postsecondary training

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39-6021 Tour Guides and Escorts	653	807	154	193	347	\$11.78	Moderate-term on-the-job training
39-9011 Child Care Workers	5,009	5,910	901	1,487	2,388	\$8.90	Short-term on-the-job training
39-9021 Personal and Home Care Aides	5,335	6,703	1,368	964	2,332	\$10.41	Short-term on-the-job training
39-9031 Fitness Trainers and Aerobics Instructors	2,910	3,788	878	768	1,646	\$14.13	Related work experience
39-9032 Recreation Workers	4,488	5,359	871	1,130	2,001	\$11.49	Short-term on-the-job training
39-9099 Personal Care and Service Workers, All Other	1,392	1,638	246	326	572	\$9.05	Short-term on-the-job training
<b>Sales and Related</b>							
41-1011 Supervisors and Managers of Retail Sales Workers	15,944	18,406	2,462	3,086	5,548	\$16.80	Related work experience
41-1012 Supervisors and Managers of Non-Retail Sales Workers	4,568	5,086	518	911	1,429	\$29.80	Related work experience
41-2011 Cashiers	33,463	36,328	2,865	16,978	19,843	\$9.00	Short-term on-the-job training
41-2021 Counter and Rental Clerks	6,271	7,120	849	2,564	3,413	\$9.34	Short-term on-the-job training
41-2022 Parts Salespersons	3,888	4,431	543	1,190	1,733	\$14.41	Moderate-term on-the-job training
41-2031 Retail Salespersons	59,557	68,850	9,293	23,339	32,632	\$10.49	Short-term on-the-job training
41-3011 Advertising Sales Agents	1,833	1,991	158	371	529	\$20.30	Moderate-term on-the-job training
41-3021 Insurance Sales Agents	3,721	4,267	546	954	1,500	\$20.69	Bachelor's
41-3031 Securities, Commodities, and Financial Services Sales Agents	2,690	3,205	515	334	849	\$31.78	Bachelor's
41-3099 Sales Representatives, Services, All Other	6,345	7,231	886	1,292	2,178	\$20.45	Moderate-term on-the-job training
41-4011 Wholesale and Manufacturing Sales Representatives; Technical and Scientific	5,474	6,180	706	1,530	2,236	\$33.85	Moderate-term on-the-job training
41-4012 Wholesale and Manufacturing Sales Representatives Non-technical and Scientific	16,794	18,710	1,916	4,661	6,577	\$22.68	Moderate-term on-the-job training
41-9011 Demonstrators and Product Promoters	1,887	2,267	380	462	842	\$9.00	Short-term on-the-job training
41-9021 Real Estate Brokers	3,045	3,295	250	629	879	NA	Postsecondary training
41-9022 Real Estate Sales Agents	11,942	12,911	969	2,467	3,436	NA	Postsecondary training
41-9031 Sales Engineers	1,161	1,234	73	357	430	\$35.61	Bachelor's
41-9041 Telemarketers	2,784	3,217	433	492	925	\$9.56	Short-term on-the-job training
41-9099 Sales and Related Workers, All Other	3,372	3,928	556	695	1,251	\$15.29	Short-term on-the-job training
<b>Office and Administrative Support</b>							
43-1011 Supervisors and Managers of Office and Administrative Support Workers	16,308	18,934	2,626	3,781	6,407	\$21.13	Related work experience
43-2011 Switchboard Operators, Including Answering Service	2,071	1,985	0	519	519	\$11.89	Short-term on-the-job training
43-3011 Bill and Account Collectors	4,369	5,171	802	899	1,701	\$14.91	Short-term on-the-job training
43-3021 Billing and Posting Clerks	5,941	7,131	1,190	1,109	2,299	\$15.03	Short-term on-the-job training
43-3031 Bookkeeping, Accounting, and Auditing Clerks	28,268	32,403	4,135	5,683	9,818	\$14.91	Postsecondary training
43-3041 Gaming Cage Workers	340	510	170	207	377	\$12.14	Short-term on-the-job training
43-3051 Payroll and Timekeeping Clerks	2,447	2,778	331	691	1,022	\$16.50	Short-term on-the-job training
43-3071 Tellers	6,731	7,587	856	3,527	4,383	\$10.95	Short-term on-the-job training
43-4031 Court, Municipal, and License Clerks	1,723	1,901	178	401	579	\$15.94	Short-term on-the-job training
43-4051 Customer Service Representatives	23,420	26,880	3,460	3,740	7,200	\$13.64	Moderate-term on-the-job training
43-4061 Eligibility Interviewers, Government Programs	1,237	1,346	109	344	453	\$15.75	Moderate-term on-the-job training
43-4071 File Clerks	2,229	2,124	0	645	645	\$10.89	Short-term on-the-job training
43-4081 Hotel, Motel, and Resort Desk Clerks	3,543	4,114	571	1,719	2,290	\$9.26	Short-term on-the-job training
43-4111 Interviewers, Except Eligibility and Loan	3,535	4,516	981	1,039	2,020	\$13.58	Short-term on-the-job training
43-4121 Library Assistants, Clerical	1,552	1,739	187	666	853	\$12.88	Short-term on-the-job training
43-4131 Loan Interviewers and Clerks	4,018	4,191	173	562	735	\$16.27	Short-term on-the-job training
43-4141 New Accounts Clerks	1,136	1,275	139	303	442	\$14.96	Related work experience
43-4151 Order Clerks	3,428	2,742	0	694	694	\$13.55	Short-term on-the-job training
43-4161 Human Resources Assistants, Except Payroll and Timekeeping	1,513	1,720	207	348	555	\$16.75	Short-term on-the-job training
43-4171 Receptionists and Information Clerks	15,256	18,883	3,627	4,194	7,821	\$12.01	Short-term on-the-job training
43-4181 Reservation and Transportation Ticket Agents and Travel Clerks	1,004	1,072	68	271	339	\$14.47	Short-term on-the-job training

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43-4199 Information and Record Clerks, All Other	4,148	4,589	441	686	1,127	\$13.19	Short-term on-the-job training
43-5011 Cargo and Freight Agents	1,039	1,200	161	252	413	\$14.93	Moderate-term on-the-job training
43-5021 Couriers and Messengers	1,331	1,585	254	334	588	\$13.34	Short-term on-the-job training
43-5031 Police, Fire, and Ambulance Dispatchers	978	1,105	127	224	351	\$18.44	Moderate-term on-the-job training
43-5032 Dispatchers, Except Police, Fire, and Ambulance	2,751	3,086	335	627	962	\$15.67	Moderate-term on-the-job training
43-5052 Postal Service Mail Carriers	3,716	3,349	0	1,107	1,107	\$21.84	Short-term on-the-job training
Postal Service Mail Sorters, Processors, and Processing							
43-5053 Machine Operators	1,875	1,692	0	471	471	\$21.45	Short-term on-the-job training
43-5061 Production, Planning, and Expediting Clerks	3,359	3,703	344	855	1,199	\$19.37	Related work experience
43-5071 Shipping, Receiving, and Traffic Clerks	9,723	11,037	1,314	2,130	3,444	\$13.38	Short-term on-the-job training
43-5081 Stock Clerks and Order Fillers	16,526	19,018	2,492	6,577	9,069	\$11.42	Short-term on-the-job training
43-5111 Weighers, Measurers, Checkers, and Samplers, Recordkeeping	1,252	1,443	191	341	532	\$12.44	Short-term on-the-job training
43-6011 Executive Secretaries and Administrative Assistants	15,892	18,434	2,542	3,287	5,829	\$17.60	Moderate-term on-the-job training
43-6012 Legal Secretaries	3,272	3,793	521	676	1,197	\$17.74	Postsecondary training
43-6013 Medical Secretaries	6,749	8,268	1,519	1,438	2,957	\$15.54	Moderate-term on-the-job training
43-6014 Secretaries, Except Legal, Medical, and Executive	18,971	21,663	2,692	3,891	6,583	\$13.82	Moderate-term on-the-job training
43-9021 Data Entry Keyers	2,515	2,453	0	586	586	\$12.39	Moderate-term on-the-job training
43-9041 Insurance Claims and Policy Processing Clerks	2,996	3,304	308	507	815	\$16.35	Moderate-term on-the-job training
43-9051 Mail Clerks and Mail Machine Operators, Except Postal Service	1,496	1,721	225	481	706	\$11.78	Short-term on-the-job training
43-9061 Office Clerks, General	40,500	46,807	6,307	9,668	15,975	\$12.57	Short-term on-the-job training
43-9071 Office Machine Operators, Except Computer	1,036	1,163	127	277	404	\$12.23	Short-term on-the-job training
43-9199 Office and Administrative Support Workers, All Other	11,645	13,509	1,864	2,968	4,832	\$12.74	Short-term on-the-job training
<b>Farming, Fishing, and Forestry</b>							
Supervisors and Managers of Farming, Fishing, and Forestry							
45-1011 Workers	2,151	2,355	204	517	721	\$19.09	Related work experience
45-2041 Graders and Sorters, Agricultural Products	3,014	3,215	201	826	1,027	\$8.85	Short-term on-the-job training
45-2091 Agricultural Equipment Operators	3,507	3,799	292	1,035	1,327	\$12.06	Short-term on-the-job training
45-2092 Farmworkers and Laborers for Crops, Nurseries, and	17,916	20,356	2,440	5,423	7,863	\$8.78	Short-term on-the-job training
45-2093 Farmworkers, Farm and Ranch Animals	2,295	2,499	204	679	883	\$10.22	Short-term on-the-job training
45-4022 Logging Equipment Operators	2,077	2,034	0	378	378	\$17.51	Moderate-term on-the-job training
45-4029 Logging Workers, All Other	1,644	1,606	0	392	392	\$16.22	Moderate-term on-the-job training
<b>Construction and Extraction</b>							
Supervisors and Managers of Construction Trades and							
47-1011 Extraction Workers	7,102	8,165	1,063	1,298	2,361	\$26.96	Related work experience
47-2021 Brickmasons and Blockmasons	987	1,139	152	158	310	\$21.42	Long-term on-the-job training
47-2031 Carpenters	15,044	17,184	2,140	2,623	4,763	\$17.22	Long-term on-the-job training
47-2051 Cement Masons and Concrete Finishers	2,816	3,236	420	609	1,029	\$16.89	Long-term on-the-job training
47-2061 Construction Laborers	10,546	12,129	1,583	1,509	3,092	\$14.18	Short-term on-the-job training
47-2073 Operating Engineers and Other Construction Equipment	3,870	4,367	497	1,059	1,556	\$20.57	Moderate-term on-the-job training
47-2081 Drywall and Ceiling Tile Installers	2,041	2,344	303	475	778	\$20.19	Long-term on-the-job training
47-2111 Electricians	7,042	7,888	846	1,476	2,322	\$27.72	Postsecondary training
47-2121 Glaziers	1,007	1,162	155	227	382	\$17.06	Long-term on-the-job training
47-2131 Insulation Workers, Floor, Ceiling, and Wall	890	1,027	137	289	426	\$15.39	Long-term on-the-job training
47-2141 Painters, Construction and Maintenance	5,222	5,979	757	853	1,610	\$15.40	Long-term on-the-job training
47-2152 Plumbers, Pipefitters, and Steamfitter	5,192	5,925	733	1,278	2,011	\$26.54	Postsecondary training
47-2181 Roofers	2,843	3,273	430	712	1,142	\$14.61	Moderate-term on-the-job training
47-2211 Sheet Metal Workers	3,515	4,034	519	905	1,424	\$20.80	Postsecondary training
47-2221 Structural Iron and Steel Workers	846	967	121	177	298	\$23.92	Postsecondary training
47-3011 Brickmason's, Blockmason's, Stonemason's, and Tile and Marble Setter's Helpers	649	752	103	291	394	\$12.97	Short-term on-the-job training

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47-3012 Carpenter's Helpers	892	1,023	131	398	529	\$11.46	Short-term on-the-job training
47-4011 Construction and Building Inspectors	1,524	1,794	270	374	644	\$25.95	Related work experience
47-4041 Hazardous Materials Removal Workers	1,334	1,614	280	389	669	\$16.89	Moderate-term on-the-job training
47-4051 Highway Maintenance Workers	2,188	2,415	227	333	560	\$17.44	Moderate-term on-the-job training
<b>Installation, Maintenance, and Repair</b>							
49-1011 Supervisors and Managers of Mechanics, Installers, and	4,868	5,422	554	1,289	1,843	\$25.86	Related work experience
49-2011 Computer, Automated Teller, and Office Machine Repairers	1,574	1,771	197	203	400	\$17.13	Postsecondary training
49-2022 Except Line Installers	2,271	2,319	48	475	523	\$25.24	Postsecondary training
49-2094 Electrical and Electronics Repairers, Commercial and Industrial							
49-2094 Equipment	1,287	1,298	11	284	295	\$25.36	Postsecondary training
49-3011 Aircraft Mechanics and Service Technicians	1,198	1,338	140	299	439	\$24.97	Postsecondary training
49-3021 Automotive Body and Related Repairers	1,761	2,063	302	388	690	\$17.50	Postsecondary training
49-3023 Automotive Service Technicians and Mechanics	6,728	7,780	1,052	1,930	2,982	\$17.20	Postsecondary training
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	4,167	4,668	501	1,136	1,637	\$19.35	Long-term on-the-job training
49-3041 Farm Equipment Mechanics	1,420	1,573	153	325	478	\$17.28	Long-term on-the-job training
49-3042 Mobile Heavy Equipment Mechanics, Except Engines	2,113	2,318	205	481	686	\$20.45	Long-term on-the-job training
49-3092 Recreational Vehicle Service Technicians	553	628	75	251	326	\$19.62	Postsecondary training
49-3093 Tire Repairers and Changers	1,776	2,015	239	805	1,044	\$11.17	Short-term on-the-job training
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and							
49-9021 Installers	2,762	3,126	364	391	755	\$19.16	Long-term on-the-job training
49-9041 Industrial Machinery Mechanics	4,488	4,598	110	915	1,025	\$20.85	Postsecondary training
49-9042 Maintenance and Repair Workers, General	13,398	15,215	1,817	2,747	4,564	\$15.82	Long-term on-the-job training
49-9043 Maintenance Workers, Machinery	983	1,042	59	229	288	\$15.20	Long-term on-the-job training
49-9044 Millwrights	1,582	1,731	149	402	551	\$21.00	Postsecondary training
49-9051 Electrical Power-Line Installers and Repairers	1,697	1,815	118	557	675	\$33.64	Postsecondary training
49-9052 Telecommunications Line Installers and Repairers	1,679	1,860	181	481	662	\$17.71	Long-term on-the-job training
49-9098 Installation, Maintenance, and Repair Worker's Helpers	1,722	1,974	252	625	877	\$11.48	Short-term on-the-job training
49-9099 Installation, Maintenance, and Repair Workers, All Other	2,688	3,023	335	649	984	\$13.79	Long-term on-the-job training
<b>Production</b>							
51-1011 Supervisors and Managers of Production and Operating	9,280	9,756	476	1,996	2,472	\$22.27	Related work experience
51-2022 Electrical and Electronic Equipment Assemblers	5,516	5,526	10	1,305	1,315	\$12.78	Short-term on-the-job training
51-2041 Structural Metal Fabricators and Fitters	2,090	2,297	207	515	722	\$16.39	Long-term on-the-job training
51-2092 Assemblers, Multi-task or Team	10,714	11,471	757	2,868	3,625	\$12.37	Moderate-term on-the-job training
51-2099 Assemblers and Fabricators, All Other	5,257	5,625	368	1,407	1,775	\$12.53	Moderate-term on-the-job training
51-3011 Bakers	2,418	2,733	315	598	913	\$11.30	Long-term on-the-job training
51-3021 Butchers and Meat Cutters	1,728	1,966	238	405	643	\$16.31	Long-term on-the-job training
51-3092 Food Mixing and Blending Machine Operators and Tenders	1,258	1,322	64	318	382	\$11.60	Short-term on-the-job training
51-4011 Computer-Controlled Machine Tool Operators, Metal and Plastic	2,156	2,320	164	369	533	\$16.79	Long-term on-the-job training
51-4021 Extruding and Drawing Machine Setters, Operators, and							
51-4021 Tenders, Metal and Plastic	951	987	36	323	359	\$12.85	Moderate-term on-the-job training
51-4031 Cutting, Punching, and Press Machine Setters, Operators, and							
51-4031 Tenders, Metal and Plastic	2,081	2,288	207	506	713	\$12.84	Moderate-term on-the-job training
51-4041 Machinists	3,470	3,775	305	844	1,149	\$19.05	Long-term on-the-job training
51-4072 Molding, Coremaking, and Casting Machine Setters, Operators,							
51-4072 and Tenders, Metal and Plastic	1,307	1,381	74	334	408	\$12.91	Moderate-term on-the-job training
51-4081 Multiple Machine Tool Setters, Operators, and Tenders, Metal							
51-4081 and Plastic	816	878	62	233	295	\$14.53	Moderate-term on-the-job training
51-4121 Welders, Cutters, Solderers, and Brazers	5,580	6,043	463	1,641	2,104	\$15.77	Long-term on-the-job training
51-5023 Printing Press Machine Operators	2,251	2,257	6	523	529	\$16.09	Moderate-term on-the-job training

\* Occupations with declining employment have zero growth openings  
NA Median wage not available  
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# High-Demand Occupations

Occupations with more than the median number of total 2006-2016 openings for the state  
Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
51-6011 Laundry and Dry-Cleaning Workers	2,022	2,278	256	585	841	\$9.10	Moderate-term on-the-job training
51-7011 Cabinetmakers and Bench Carpenters	2,649	2,791	142	681	823	\$13.46	Long-term on-the-job training
51-7041 Sawing Machine Setters, Operators, and Tenders, Wood Woodworking Machine Setters, Operators, and Tenders, Except	2,680	2,589	0	745	745	\$14.62	Moderate-term on-the-job training
51-7042 Sawing	3,568	3,487	0	926	926	\$15.36	Moderate-term on-the-job training
51-7099 Woodworkers, All Other	983	1,025	42	290	332	\$14.91	Moderate-term on-the-job training
51-8031 Water and Liquid Waste Treatment Plant and System Operators Separating, Filtering, Clarifying, Precipitating, and Still Machine	1,199	1,328	129	434	563	\$20.52	Postsecondary training
51-9012 Setters, Operators, and Tenders	766	847	81	258	339	\$17.90	Moderate-term on-the-job training
51-9023 Mixing and Blending Machine Setters, Operators, and Tenders Extruding, Forming, Pressing, and Compacting Machine Setters,	1,018	1,060	42	271	313	\$14.82	Moderate-term on-the-job training
51-9041 Operators, and Tenders	1,511	1,556	45	404	449	\$14.72	Moderate-term on-the-job training
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers	5,706	5,961	255	1,327	1,582	\$14.84	Moderate-term on-the-job training
51-9081 Dental Laboratory Technicians	838	973	135	198	333	\$17.31	Long-term on-the-job training
51-9111 Packaging and Filling Machine Operators and Tenders Coating, Painting, and Spraying Machine Setters, Operators,	5,258	5,520	262	1,072	1,334	\$11.30	Short-term on-the-job training
51-9121 and Tenders	1,179	1,242	63	316	379	\$13.45	Moderate-term on-the-job training
51-9122 Painters, Transportation Equipment	978	1,093	115	271	386	\$17.50	Moderate-term on-the-job training
51-9141 Semiconductor Processors	3,801	3,688	0	829	829	\$15.28	Associate
51-9196 Paper Goods Machine Setters, Operators, and Tenders	1,424	1,309	0	290	290	\$20.67	Moderate-term on-the-job training
51-9198 Production Worker's Helpers	5,546	5,874	328	1,601	1,929	\$11.39	Short-term on-the-job training
51-9199 Production Workers, All Other	7,870	8,653	783	1,971	2,754	\$12.06	Moderate-term on-the-job training
<b>Transportation and Material Moving</b>							
53-1021 Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand Supervisors and Managers of Transportation and Material-	2,217	2,572	355	563	918	\$17.86	Related work experience
53-1031 Moving Machine and Vehicle Operators	3,069	3,393	324	760	1,084	\$22.58	Related work experience
53-2012 Commercial Pilots, Exclude Airline Pilots	626	738	112	182	294	\$50.412	Postsecondary training
53-3021 Bus Drivers, Transit and Intercity	2,979	3,364	385	690	1,075	\$15.61	Moderate-term on-the-job training
53-3022 Bus Drivers, School	4,998	5,403	405	1,132	1,537	\$12.74	Short-term on-the-job training
53-3031 Driver/Sales Workers	6,650	7,283	633	1,138	1,771	\$10.45	Short-term on-the-job training
53-3032 Truck Drivers, Heavy and Tractor-Trailer	25,480	27,887	2,407	4,358	6,765	\$16.49	Postsecondary training
53-3033 Truck Drivers, Light or Delivery Services	8,797	9,933	1,136	859	1,995	\$12.88	Moderate-term on-the-job training
53-3041 Taxi Drivers and Chauffeurs	1,470	1,732	262	147	409	\$9.09	Short-term on-the-job training
53-3099 Motor Vehicle Operators, All Other	1,397	1,613	216	211	427	\$10.40	Short-term on-the-job training
53-6021 Parking Lot Attendants	1,284	1,468	184	408	592	\$9.13	Short-term on-the-job training
53-6031 Service Station Attendants	7,839	8,450	611	3,656	4,267	\$8.52	Short-term on-the-job training
53-6099 Transportation Workers, All Other	638	739	101	207	308	NA	Short-term on-the-job training
53-7032 Excavating and Loading Machine and Dragline Operators	1,608	1,824	216	472	688	\$15.76	Moderate-term on-the-job training
53-7051 Fork Lift, Industrial Truck and Tractor Operators	9,796	10,574	778	1,928	2,706	\$14.31	Short-term on-the-job training
53-7061 Cleaners of Vehicles and Equipment	4,411	5,013	602	1,641	2,243	\$9.25	Short-term on-the-job training
53-7062 Laborers and Freight, Stock, and Material Movers, Hand	26,202	29,601	3,399	9,118	12,517	\$11.02	Short-term on-the-job training
53-7063 Machine Feeders and Offbearers	6,316	6,234	0	1,712	1,712	\$11.60	Short-term on-the-job training
53-7064 Packers and Packagers, Hand	8,892	10,119	1,227	1,778	3,005	\$8.62	Short-term on-the-job training
53-7081 Refuse and Recyclable Material Collectors	1,632	1,901	269	453	722	\$17.46	Short-term on-the-job training
53-7199 Material Moving Workers, All Other	1,138	1,251	113	320	433	NA	Short-term on-the-job training
<b>Nonclassifiable</b>							
66-2021 Leased Workers	9,608	10,569	961	2,353	3,314	NA	
66-2031 Sheltered Workshop Workers	800	954	154	205	359	NA	
66-2041 Non-covered Agricultural Workers	5,023	5,023	0	1,171	1,171	NA	

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## High-Demand Occupations

Occupations with more than the median number of total 2006-2016 openings for the state  
Oregon Statewide (Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
66-2051 Home Care Workers	11,714	12,651	937	2,841	3,778	NA	

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## High-Wage, High-Demand Occupations

Occupations paying more than the state 2007 median wage and with more than the median number of total 2006-2016 openings in the state  
Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
29-1111 Registered Nurses	27,988	34,921	6,933	6,582	13,515	\$31.74	Associate
11-1021 General and Operations Managers	20,549	23,533	2,984	4,157	7,141	\$39.66	Bachelor's
Postsecondary Teachers, Except Graduate Teaching Assistants	17,541	20,170	2,629	4,258	6,887	\$66,537	Master's
53-3032 Truck Drivers, Heavy and Tractor-Trailer	25,480	27,887	2,407	4,358	6,765	\$16.49	Postsecondary training
Wholesale and Manufacturing Sales Representatives Non-technical and Scientific	16,794	18,710	1,916	4,661	6,577	\$22.68	Moderate-term on-the-job training
41-4012 Supervisors and Managers of Office and Administrative Support Workers	16,308	18,934	2,626	3,781	6,407	\$21.13	Related work experience
43-6011 Executive Secretaries and Administrative Assistants	15,892	18,434	2,542	3,287	5,829	\$17.60	Moderate-term on-the-job training
41-1011 Supervisors and Managers of Retail Sales Workers	15,944	18,406	2,462	3,086	5,548	\$16.80	Related work experience
25-2021 Elementary School Teachers, Except Special Education	15,834	17,189	1,355	3,644	4,999	\$47,489	Bachelor's
47-2031 Carpenters	15,044	17,184	2,140	2,623	4,763	\$17.22	Long-term on-the-job training
49-9042 Maintenance and Repair Workers, General	13,398	15,215	1,817	2,747	4,564	\$15.82	Long-term on-the-job training
13-1199 Business Operations Specialists, All Other	12,841	14,512	1,671	2,328	3,999	\$22.70	Bachelor's
Secondary School Teachers, Except Special and Vocational Education	10,557	11,450	893	3,096	3,989	\$48,081	Bachelor's
13-2011 Accountants and Auditors	11,511	12,947	1,436	2,308	3,744	\$25.18	Bachelor's
41-9022 Real Estate Sales Agents	11,942	12,911	969	2,467	3,436	NA	Postsecondary training
29-1060 Physicians and Surgeons	6,751	8,927	2,176	1,048	3,224	NA	1st Professional
49-3023 Automotive Service Technicians and Mechanics	6,728	7,780	1,052	1,930	2,982	\$17.20	Postsecondary training
43-6013 Medical Secretaries	6,749	8,268	1,519	1,438	2,957	\$15.54	Moderate-term on-the-job training
11-9199 Managers, All Other	8,125	9,183	1,058	1,686	2,744	\$32.69	Bachelor's
31-9091 Dental Assistants	4,373	5,689	1,316	1,407	2,723	\$17.14	Moderate-term on-the-job training
Supervisors and Managers of Production and Operating Workers	9,280	9,756	476	1,996	2,472	\$22.27	Related work experience
47-1011 Supervisors and Managers of Construction Trades and Extraction Workers	7,102	8,165	1,063	1,298	2,361	\$26.96	Related work experience
47-2111 Electricians	7,042	7,888	846	1,476	2,322	\$27.72	Postsecondary training
Middle School Teachers, Except Special and Vocational Education	7,426	8,025	599	1,705	2,304	\$47,575	Bachelor's
25-2022 Wholesale and Manufacturing Sales Representatives; Technical and Scientific	5,474	6,180	706	1,530	2,236	\$33.85	Moderate-term on-the-job training
15-1041 Computer Support Specialists	7,867	9,010	1,143	1,038	2,181	\$19.98	Postsecondary training
41-3099 Sales Representatives, Services, All Other	6,345	7,231	886	1,292	2,178	\$20.45	Moderate-term on-the-job training
51-4121 Welders, Cutters, Solderers, and Brazers	5,580	6,043	463	1,641	2,104	\$15.77	Long-term on-the-job training
33-3051 Police and Sheriff's Patrol Officers	5,090	5,782	692	1,407	2,099	\$25.36	Long-term on-the-job training
47-2152 Plumbers, Pipefitters, and Steamfitter	5,192	5,925	733	1,278	2,011	\$26.54	Postsecondary training
Supervisors and Managers of Mechanics, Installers, and Repairers	4,868	5,422	554	1,289	1,843	\$25.86	Related work experience
13-2072 Loan Officers	5,262	6,124	862	915	1,777	\$24.70	Bachelor's
15-1031 Computer Software Engineers, Applications	7,433	8,329	896	779	1,675	\$40.66	Bachelor's
49-3031 Bus and Truck Mechanics and Diesel Engine Specialists	4,167	4,668	501	1,136	1,637	\$19.35	Long-term on-the-job training
47-2141 Painters, Construction and Maintenance	5,222	5,979	757	853	1,610	\$15.40	Long-term on-the-job training

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## High-Wage, High-Demand Occupations

Occupations paying more than the state 2007 median wage and with more than the median number of total 2006-2016 openings in the state  
Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
47-2073 Operating Engineers and Other Construction Equipment Operators	3,870	4,367	497	1,059	1,556	\$20.57	Moderate-term on-the-job training
13-1079 Human Resources, Training, and Labor Relations Specialists, All Other	3,830	4,651	821	722	1,543	\$25.98	Bachelor's
41-3021 Insurance Sales Agents	3,721	4,267	546	954	1,500	\$20.69	Bachelor's
33-2011 Fire Fighters	3,421	3,830	409	1,052	1,461	\$22.88	Long-term on-the-job training
21-2011 Clergy	3,773	4,376	603	836	1,439	\$21.00	Bachelor's
41-1012 Supervisors and Managers of Non-Retail Sales Workers	4,568	5,086	518	911	1,429	\$29.80	Related work experience
47-2211 Sheet Metal Workers	3,515	4,034	519	905	1,424	\$20.80	Postsecondary training
15-1071 Network and Computer Systems Administrators	3,096	4,102	1,006	399	1,405	\$28.53	Bachelor's
11-9111 Medical and Health Services Managers	2,904	3,668	764	640	1,404	\$37.15	Bachelor's
23-1011 Lawyers	4,745	5,428	683	654	1,337	\$41.45	1st Professional
15-1021 Computer Programmers	3,237	3,736	499	823	1,322	\$31.16	Bachelor's
13-1051 Cost Estimators	3,512	3,970	458	839	1,297	\$25.27	Moderate-term on-the-job training
29-2061 Licensed Practical and Licensed Vocational Nurses	2,691	3,309	618	654	1,272	\$20.43	Postsecondary training
11-2021 Marketing Managers	3,016	3,666	650	616	1,266	\$39.66	Bachelor's
15-1099 Computer Specialists, All Other	5,203	5,840	637	625	1,262	\$29.18	Postsecondary training
41-9099 Sales and Related Workers, All Other	3,372	3,928	556	695	1,251	\$15.29	Short-term on-the-job training
11-3031 Financial Managers	4,389	4,966	577	671	1,248	\$43.82	Bachelor's
29-2021 Dental Hygienists	3,032	3,957	925	298	1,223	\$35.39	Associate
43-5061 Production, Planning, and Expediting Clerks	3,359	3,703	344	855	1,199	\$19.37	Related work experience
43-6012 Legal Secretaries	3,272	3,793	521	676	1,197	\$17.74	Postsecondary training
13-1022 Wholesale and Retail Buyers, Except Farm Products	2,711	3,138	427	765	1,192	\$19.78	Bachelor's
29-1051 Pharmacists	3,169	3,696	527	665	1,192	\$46.94	1st Professional
11-9021 Construction Managers	3,495	3,987	492	678	1,170	\$34.70	Related work experience
11-2022 Sales Managers	3,534	4,001	467	695	1,162	\$44.16	Bachelor's
11-9141 Managers	3,694	4,124	430	730	1,160	\$18.41	Moderate-term on-the-job training
51-4041 Machinists	3,470	3,775	305	844	1,149	\$19.05	Long-term on-the-job training
33-3012 Correctional Officers	3,535	3,911	376	772	1,148	\$21.31	Moderate-term on-the-job training
15-1081 Network Systems and Data Communications Analysts	2,588	3,347	759	349	1,108	\$28.83	Bachelor's
17-2141 Mechanical Engineers	2,829	3,123	294	814	1,108	\$34.34	Bachelor's
43-5052 Postal Service Mail Carriers	3,716	3,349	0	1,107	1,107	\$21.84	Short-term on-the-job training
21-1021 Child, Family, and School Social Workers	3,284	3,779	495	604	1,099	\$17.94	Bachelor's
13-1023 Purchasing Agents, Except Wholesale, Retail, and Farm Products	3,231	3,483	252	835	1,087	\$22.14	Bachelor's
53-1031 Supervisors and Managers of Transportation and Material-Moving Machine and Vehicle Operators	3,069	3,393	324	760	1,084	\$22.58	Related work experience
53-3021 Bus Drivers, Transit and Intercity	2,979	3,364	385	690	1,075	\$15.61	Moderate-term on-the-job training
29-2034 Radiologic, CAT, and MRI Technologists and Technicians	2,070	2,658	588	441	1,029	\$26.53	Associate
47-2051 Cement Masons and Concrete Finishers	2,816	3,236	420	609	1,029	\$16.89	Long-term on-the-job training
49-9041 Industrial Machinery Mechanics	4,488	4,598	110	915	1,025	\$20.85	Postsecondary training
43-3051 Payroll and Timekeeping Clerks	2,447	2,778	331	691	1,022	\$16.50	Short-term on-the-job training
29-2011 Medical and Clinical Laboratory Technologists	1,760	2,238	478	539	1,017	\$27.63	Postsecondary training
25-3099 Teachers and Instructors, All Other	3,970	4,438	468	518	986	\$17.91	Bachelor's

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## High-Wage, High-Demand Occupations

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Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
11-3021 Computer and Information Systems Managers	2,878	3,302	424	561	985	\$45.14	Bachelor's
17-2051 Civil Engineers	2,931	3,411	480	505	985	\$32.45	Bachelor's
21-1012 Educational, Vocational, and School Counselors	2,680	3,006	326	649	975	\$23.56	Master's
43-5032 Dispatchers, Except Police, Fire, and Ambulance	2,751	3,086	335	627	962	\$15.67	Moderate-term on-the-job training
13-1111 Management Analysts	3,390	3,825	435	494	929	\$27.09	Bachelor's
51-7042 Woodworking Machine Setters, Operators, and Tenders, Except Sawing	3,568	3,487	0	926	926	\$15.36	Moderate-term on-the-job training
53-1021 Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand	2,217	2,572	355	563	918	\$17.86	Related work experience
15-1051 Computer Systems Analysts	3,394	3,896	502	413	915	\$32.66	Bachelor's
39-1021 Supervisors and Managers of Personal Service Workers	1,778	2,174	396	496	892	\$15.68	Related work experience
11-9051 Food Service Managers	2,354	2,812	458	421	879	\$21.14	Related work experience
41-9021 Real Estate Brokers	3,045	3,295	250	629	879	NA	Postsecondary training
29-1123 Physical Therapists	1,942	2,584	642	223	865	\$31.52	Master's
17-3011 Architectural and Civil Drafters	1,656	1,997	341	514	855	\$19.34	Postsecondary training
41-3031 Agents	2,690	3,205	515	334	849	\$31.78	Bachelor's
21-1014 Mental Health Counselors	1,691	2,104	413	433	846	\$21.62	Master's
11-9041 Engineering Managers	3,365	3,519	154	686	840	\$52.29	Bachelor's
17-3026 Industrial Engineering Technicians	4,017	3,973	0	836	836	\$20.82	Associate
33-9099 Protective Service Workers, All Other	1,004	1,104	100	731	831	\$15.46	Short-term on-the-job training
51-9141 Semiconductor Processors	3,801	3,688	0	829	829	\$15.28	Associate
17-3023 Electrical and Electronic Engineering Technicians	3,109	3,262	153	667	820	\$22.64	Associate
25-1191 Graduate Teaching Assistants	2,068	2,385	317	503	820	\$35.691	Bachelor's
17-3031 Surveying and Mapping Technicians	1,366	1,638	272	547	819	\$18.27	Moderate-term on-the-job training
43-9041 Insurance Claims and Policy Processing Clerks	2,996	3,304	308	507	815	\$16.35	Moderate-term on-the-job training
11-9151 Social and Community Service Managers	1,997	2,378	381	420	801	\$24.27	Bachelor's
31-9094 Medical Transcriptionists	1,587	2,043	456	336	792	\$16.11	Postsecondary training
47-2081 Drywall and Ceiling Tile Installers	2,041	2,344	303	475	778	\$20.19	Long-term on-the-job training
17-2112 Industrial Engineers	2,987	3,034	47	729	776	\$35.60	Bachelor's
13-1073 Training and Development Specialists	2,519	2,876	357	413	770	\$22.37	Bachelor's
19-4099 Life, Physical, and Social Science Technicians, All Other	1,957	2,232	275	493	768	\$16.81	Associate
11-9032 Elementary and Secondary School Administrators	2,129	2,337	208	554	762	\$81.910	Bachelor's
49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,762	3,126	364	391	755	\$19.16	Long-term on-the-job training
29-2012 Medical and Clinical Laboratory Technicians	1,239	1,609	370	384	754	\$18.62	Associate
21-1023 Mental Health and Substance Abuse Social Workers	1,862	2,262	400	353	753	\$15.72	Master's
19-4093 Forest and Conservation Technicians	2,866	2,935	69	683	752	\$15.37	Moderate-term on-the-job training
13-1041 Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	2,392	2,559	167	582	749	\$22.19	Bachelor's
13-1071 Employment, Recruitment, and Placement Specialists	2,231	2,597	366	370	736	\$19.48	Bachelor's
21-1011 Substance Abuse and Behavioral Disorder Counselors	1,520	1,869	349	387	736	\$16.47	Associate
43-4131 Loan Interviewers and Clerks	4,018	4,191	173	562	735	\$16.27	Short-term on-the-job training
27-1024 Graphic Designers	2,438	2,816	378	351	729	\$18.44	Associate
51-2041 Structural Metal Fabricators and Fitters	2,090	2,297	207	515	722	\$16.39	Long-term on-the-job training

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Occupations paying more than the state 2007 median wage and with more than the median number of total 2006-2016 openings in the state  
Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
53-7081 Refuse and Recyclable Material Collectors	1,632	1,901	269	453	722	\$17.46	Short-term on-the-job training
Supervisors and Managers of Farming, Fishing, and							
45-1011 Forestry Workers	2,151	2,355	204	517	721	\$19.09	Related work experience
13-1031 Claims Investigators, Examiners, and Adjusters	3,318	3,605	287	427	714	\$24.36	Long-term on-the-job training
11-9033 Postsecondary School Administrators	1,608	1,868	260	431	691	\$35.90	Master's
49-3021 Automotive Body and Related Repairers	1,761	2,063	302	388	690	\$17.50	Postsecondary training
11-3011 Administrative Services Managers	1,845	2,146	301	388	689	\$31.49	Bachelor's
53-7032 Excavating and Loading Machine and Dragline Operators	1,608	1,824	216	472	688	\$15.76	Moderate-term on-the-job training
49-3042 Mobile Heavy Equipment Mechanics, Except Engines	2,113	2,318	205	481	686	\$20.45	Long-term on-the-job training
Special Education Teachers, Preschool, Kindergarten, and							
25-2041 Elementary School	2,052	2,219	167	509	676	\$51.575	Bachelor's
49-9051 Electrical Power-Line Installers and Repairers	1,697	1,815	118	557	675	\$33.64	Postsecondary training
47-4041 Hazardous Materials Removal Workers	1,334	1,614	280	389	669	\$16.89	Moderate-term on-the-job training
49-9052 Telecommunications Line Installers and Repairers	1,679	1,860	181	481	662	\$17.71	Long-term on-the-job training
29-1126 Respiratory Therapists	1,063	1,324	261	392	653	\$24.81	Associate
11-3051 Industrial Production Managers	2,774	2,877	103	546	649	\$36.69	Bachelor's
47-4011 Construction and Building Inspectors	1,524	1,794	270	374	644	\$25.95	Related work experience
51-3021 Butchers and Meat Cutters	1,728	1,966	238	405	643	\$16.31	Long-term on-the-job training
17-1011 Architects, Except Landscape and Naval	1,756	2,169	413	224	637	\$26.34	Bachelor's
35-1011 Chefs and Head Cooks	1,158	1,393	235	378	613	\$16.02	Postsecondary training
17-2072 Electronics Engineers, Except Computer	2,085	2,267	182	428	610	\$36.39	Bachelor's
19-3021 Market Research Analysts	1,524	1,700	176	418	594	\$29.51	Bachelor's
25-4021 Librarians	1,617	1,803	186	408	594	\$25.78	Master's
21-1029 Social Workers, All Other	1,737	1,983	246	347	593	\$20.88	Bachelor's
43-4031 Court, Municipal, and License Clerks	1,723	1,901	178	401	579	\$15.94	Short-term on-the-job training
13-2099 Financial Specialists, All Other	1,735	1,984	249	326	575	\$24.22	Bachelor's
Water and Liquid Waste Treatment Plant and System							
51-8031 Operators	1,199	1,328	129	434	563	\$20.52	Postsecondary training
47-4051 Highway Maintenance Workers	2,188	2,415	227	333	560	\$17.44	Moderate-term on-the-job training
33-1012 Supervisors and Managers of Police and Detectives	1,200	1,339	139	419	558	\$34.63	Related work experience
Human Resources Assistants, Except Payroll and							
43-4161 Timekeeping	1,513	1,720	207	348	555	\$16.75	Short-term on-the-job training
49-9044 Millwrights	1,582	1,731	149	402	551	\$21.00	Postsecondary training
19-3051 Urban and Regional Planners	1,090	1,240	150	389	539	\$29.26	Master's
27-3031 Public Relations Specialists	1,818	2,075	257	279	536	\$23.18	Bachelor's
17-2061 Computer Hardware Engineers	3,218	3,200	0	535	535	\$42.47	Bachelor's
Computer-Controlled Machine Tool Operators, Metal and							
51-4011 Plastic	2,156	2,320	164	369	533	\$16.79	Long-term on-the-job training
41-3011 Advertising Sales Agents	1,833	1,991	158	371	529	\$20.30	Moderate-term on-the-job training
51-5023 Printing Press Machine Operators	2,251	2,257	6	523	529	\$16.09	Moderate-term on-the-job training
21-1092 Probation Officers and Correctional Treatment Specialists	1,766	1,964	198	328	526	\$22.16	Bachelor's
29-2041 Emergency Medical Technicians and Paramedics	1,340	1,692	352	174	526	\$16.81	Postsecondary training
Telecommunications Equipment Installers and Repairers,							
49-2022 Except Line Installers	2,271	2,319	48	475	523	\$25.24	Postsecondary training

\* Occupations with declining employment have zero growth openings  
NA Median wage unavailable, but estimated to be above state median  
Annual wages represent a partial work year, e.g. school year



## High-Wage, High-Demand Occupations

Occupations paying more than the state 2007 median wage and with more than the median number of total 2006-2016 openings in the state  
Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
19-1023 Zoologists and Wildlife Biologists	1,162	1,295	133	385	518	\$26.66	Master's
Supervisors and Managers of Fire Fighting and Prevention Workers	933	1,039	106	406	512	\$31.62	Related work experience
37-3012 Pesticide Handlers, Sprayers, and Applicators; Vegetation	1,418	1,601	183	329	512	\$17.25	Moderate-term on-the-job training
25-2043 Special Education Teachers, Secondary School	1,548	1,673	125	384	509	\$50,440	Bachelor's
11-1011 Chief Executives	1,591	1,769	178	317	495	NA	Bachelor's
17-2199 Engineers, All Other	1,723	1,868	145	342	487	\$36.74	Bachelor's
49-3041 Farm Equipment Mechanics	1,420	1,573	153	325	478	\$17.28	Long-term on-the-job training
29-1071 Physician Assistants	613	967	354	121	475	\$37.79	Bachelor's
25-9031 Instructional Coordinators	1,581	1,797	216	257	473	\$28.22	Bachelor's
11-3071 Transportation, Storage, and Distribution Managers	1,422	1,598	176	295	471	\$33.41	Bachelor's
21-1022 Medical and Public Health Social Workers	1,143	1,397	254	217	471	\$23.35	Bachelor's
29-1131 Veterinarians	836	1,077	241	230	471	\$32.76	1st Professional
Postal Service Mail Sorters, Processors, and Processing							
43-5053 Machine Operators	1,875	1,692	0	471	471	\$21.45	Short-term on-the-job training
29-2099 Health Technologists and Technicians, All Other	1,035	1,292	257	211	468	\$18.98	Associate
15-1032 Computer Software Engineers, Systems Software	2,038	2,287	249	214	463	\$45.49	Bachelor's
19-4021 Biological Technicians	1,595	1,773	178	285	463	\$15.43	Associate
43-4061 Eligibility Interviewers, Government Programs	1,237	1,346	109	344	453	\$15.75	Moderate-term on-the-job training
17-1022 Surveyors	780	938	158	294	452	\$28.67	Bachelor's
19-3031 Clinical, Counseling, and School Psychologists	975	1,190	215	236	451	\$28.85	Master's
13-2051 Financial Analysts	1,484	1,694	210	234	444	\$31.99	Bachelor's
29-1021 Dentists, General	898	1,168	270	173	443	NA	1st Professional
49-3011 Aircraft Mechanics and Service Technicians	1,198	1,338	140	299	439	\$24.97	Postsecondary training
11-3049 Human Resources Managers, All Other	1,324	1,517	193	240	433	\$39.64	Bachelor's
27-2042 Musicians and Singers	1,172	1,342	170	263	433	NA	Long-term on-the-job training
53-7199 Material Moving Workers, All Other	1,138	1,251	113	320	433	NA	Short-term on-the-job training
41-9031 Sales Engineers	1,161	1,234	73	357	430	\$35.61	Bachelor's
17-3022 Civil Engineering Technicians	1,173	1,338	165	263	428	\$23.49	Associate
Supervisors and Managers of Landscaping and							
37-1012 Groundskeeping Workers	1,276	1,570	294	132	426	\$19.98	Related work experience
47-2131 Insulation Workers, Floor, Ceiling, and Wall	890	1,027	137	289	426	\$15.39	Long-term on-the-job training
21-2021 Directors, Religious Activities and Education	1,541	1,779	238	183	421	\$15.61	Bachelor's
23-2011 Paralegals and Legal Assistants	1,752	2,008	256	151	407	\$19.62	Associate
49-2011 Repairers	1,574	1,771	197	203	400	\$17.13	Postsecondary training
27-3041 Editors	1,149	1,257	108	291	399	\$21.86	Bachelor's
45-4029 Logging Workers, All Other	1,644	1,606	0	392	392	\$16.22	Moderate-term on-the-job training
11-9011 Farm, Ranch, and Other Agricultural Managers	1,404	1,538	134	253	387	\$27.69	Related work experience
25-2012 Kindergarten Teachers, Except Special Education	1,737	1,907	170	217	387	\$38,082	Bachelor's
51-9122 Painters, Transportation Equipment	978	1,093	115	271	386	\$17.50	Moderate-term on-the-job training
13-2021 Appraisers and Assessors of Real Estate	1,087	1,223	136	248	384	\$24.16	Postsecondary training
47-2121 Glaziers	1,007	1,162	155	227	382	\$17.06	Long-term on-the-job training
11-2031 Public Relations Managers	1,061	1,242	181	199	380	\$28.12	Bachelor's
29-1122 Occupational Therapists	911	1,150	239	139	378	\$30.01	Bachelor's

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## High-Wage, High-Demand Occupations

Occupations paying more than the state 2007 median wage and with more than the median number of total 2006-2016 openings in the state  
Oregon Statewide (Median Wage: \$15.22, Median Total Openings: 283)

Standard Occupational Classification Code and Title	Employment		2006-2016 Openings			2007 Median Wage	Minimum Educational Requirement
	2006	2016	Due to Growth*	Due to Replacement	Total		
45-4022 Logging Equipment Operators	2,077	2,034	0	378	378	\$17.51	Moderate-term on-the-job training
21-1099 Community and Social Service Specialists, All Other	1,111	1,258	147	221	368	\$16.58	Moderate-term on-the-job training
19-1042 Medical Scientists, Except Epidemiologists	1,107	1,265	158	209	367	\$25.83	Doctorate
29-2055 Surgical Technologists	853	1,087	234	126	360	\$19.81	Postsecondary training
17-3029 Engineering Technicians, All Other	1,191	1,252	61	294	355	\$22.72	Associate
43-5031 Police, Fire, and Ambulance Dispatchers	978	1,105	127	224	351	\$18.44	Moderate-term on-the-job training
11-3061 Purchasing Managers	1,042	1,147	105	238	343	\$36.84	Bachelor's
13-2082 Tax Preparers	1,435	1,534	99	244	343	\$16.48	Postsecondary training
23-2093 Title Examiners, Abstractors, and Searchers	1,467	1,637	170	170	340	\$21.75	Moderate-term on-the-job training
Separating, Filtering, Clarifying, Precipitating, and Still							
51-9012 Machine Setters, Operators, and Tenders	766	847	81	258	339	\$17.90	Moderate-term on-the-job training
51-9081 Dental Laboratory Technicians	838	973	135	198	333	\$17.31	Long-term on-the-job training
49-3092 Recreational Vehicle Service Technicians	553	628	75	251	326	\$19.62	Postsecondary training
17-2071 Electrical Engineers	979	1,097	118	204	322	\$37.86	Bachelor's
17-3013 Mechanical Drafters	818	899	81	241	322	\$23.33	Postsecondary training
29-1127 Speech and Language Pathologists	631	770	139	174	313	\$30.53	Master's
29-9099 Healthcare Practitioner and Technical Workers, All Other	668	842	174	137	311	\$18.94	Associate
47-2021 Brickmasons and Blockmasons	987	1,139	152	158	310	\$21.42	Long-term on-the-job training
29-2053 Psychiatric Technicians	389	631	242	66	308	\$18.54	Postsecondary training
13-1072 Compensation, Benefits, and Job Analysis Specialists	950	1,099	149	157	306	\$21.43	Bachelor's
19-2041 Environmental Scientists and Specialists, Including Health	994	1,112	118	187	305	\$28.77	Bachelor's
13-2052 Personal Financial Advisors	613	821	208	93	301	\$25.04	Bachelor's
15-1061 Database Administrators	1,113	1,287	174	124	298	\$33.04	Bachelor's
47-2221 Structural Iron and Steel Workers	846	967	121	177	298	\$23.92	Postsecondary training
Electrical and Electronics Repairers, Commercial and							
49-2094 Industrial Equipment	1,287	1,298	11	284	295	\$25.36	Postsecondary training
53-2012 Commercial Pilots, Exclude Airline Pilots	626	738	112	182	294	\$50.412	Postsecondary training
51-9196 Paper Goods Machine Setters, Operators, and Tenders	1,424	1,309	0	290	290	\$20.67	Moderate-term on-the-job training
27-4011 Audio and Video Equipment Technicians	742	836	94	193	287	\$17.10	Long-term on-the-job training
27-3042 Technical Writers	691	766	75	210	285	\$28.13	Bachelor's

\* Occupations with declining employment have zero growth openings  
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Annual wages represent a partial work year, e.g. school year

# High-Skill Occupations

Those occupations with a minimum requirement of postsecondary training or higher AND those occupations with long-term on-the-job training or related work experience as a minimum requirement, and postsecondary or above as a competitive requirement.

Oregon Statewide and All Regions

SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
<b>Management, Business, and Financial</b>			
11-2011	Advertising and Promotions Managers	Bachelor's	Bachelor's and related work experience
11-2021	Marketing Managers	Bachelor's	Bachelor's and related work experience
11-2022	Sales Managers	Bachelor's	Bachelor's and related work experience
11-2031	Public Relations Managers	Bachelor's	Bachelor's and related work experience
11-3011	Administrative Services Managers	Bachelor's	Bachelor's and related work experience
11-3021	Computer and Information Systems Managers	Bachelor's	Bachelor's and related work experience
11-3031	Financial Managers	Bachelor's	Bachelor's and related work experience
11-3041	Compensation and Benefits Managers	Bachelor's	Bachelor's and related work experience
11-3042	Training and Development Managers	Bachelor's	Bachelor's and related work experience
11-3049	Human Resources Managers, All Other	Bachelor's	Bachelor's and related work experience
11-3051	Industrial Production Managers	Bachelor's	Master's
11-3061	Purchasing Managers	Bachelor's	Bachelor's and related work experience
11-3071	Transportation, Storage, and Distribution Managers	Bachelor's	Bachelor's and related work experience
11-9011	Farm, Ranch, and Other Agricultural Managers	Related work experience	Bachelor's and related work experience
11-9021	Construction Managers	Related work experience	Bachelor's
11-9031	Preschool and Child Care Administrators	Associate	Bachelor's
11-9032	Elementary and Secondary School Administrators	Bachelor's	Master's
11-9033	Postsecondary School Administrators	Master's	Doctorate
11-9039	Education Administrators, All Other	Master's	Doctorate
11-9041	Engineering Managers	Bachelor's	Bachelor's and related work experience
11-9051	Food Service Managers	Related work experience	Associate
11-9061	Funeral Directors	Associate	Associate and related work experience
11-9071	Gaming Managers	Associate	Associate and related work experience
11-9081	Lodging Managers	Related work experience	Associate
11-9111	Medical and Health Services Managers	Bachelor's	Master's
11-9121	Natural Sciences Managers	Bachelor's	Bachelor's and related work experience
11-9131	Postmasters and Mail Superintendents	Related work experience	Bachelor's
11-9151	Social and Community Service Managers	Bachelor's	Bachelor's and related work experience
11-9199	Managers, All Other	Bachelor's	Bachelor's and related work experience
11-1011	Chief Executives	Bachelor's	Bachelor's and related work experience
11-1021	General and Operations Managers	Bachelor's	Bachelor's and related work experience
11-1031	Legislators	Bachelor's	Bachelor's and related work experience
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	Bachelor's	Bachelor's and related work experience
13-1021	Purchasing Agents and Buyers, Farm Products	Bachelor's	Bachelor's and related work experience
13-1022	Wholesale and Retail Buyers, Except Farm Products	Bachelor's	Bachelor's and related work experience
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Bachelor's	Bachelor's and related work experience
13-1031	Claims Investigators, Examiners, and Adjusters	Long-term on-the-job training	Bachelor's
13-1032	Insurance Appraisers, Vehicle Damage	Long-term on-the-job training	Bachelor's
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	Bachelor's	Master's
13-1061	Emergency Management Specialists	Related work experience	Bachelor's
13-1071	Employment, Recruitment, and Placement Specialists	Bachelor's	Bachelor's and related work experience
13-1072	Compensation, Benefits, and Job Analysis Specialists	Bachelor's	Bachelor's and related work experience
13-1073	Training and Development Specialists	Bachelor's	Bachelor's and related work experience
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	Bachelor's	Bachelor's and related work experience
13-1081	Logisticians	Bachelor's	Bachelor's and related work experience
13-1111	Management Analysts	Bachelor's	Master's
13-1121	Meeting and Convention Planners	Related work experience	Bachelor's
13-1199	Business Operations Specialists, All Other	Bachelor's	Bachelor's and related work experience
13-2011	Accountants and Auditors	Bachelor's	Bachelor's and related work experience
13-2021	Appraisers and Assessors of Real Estate	Postsecondary training	Bachelor's
13-2031	Budget Analysts	Bachelor's	Bachelor's and related work experience
13-2041	Credit Analysts	Bachelor's	Bachelor's and related work experience
13-2051	Financial Analysts	Bachelor's	Master's
13-2052	Personal Financial Advisors	Bachelor's	Bachelor's and related work experience
13-2053	Insurance Underwriters	Bachelor's	Bachelor's and related work experience
13-2061	Financial Examiners	Bachelor's	Bachelor's and related work experience
13-2071	Loan Counselors	Bachelor's	Bachelor's and related work experience
13-2072	Loan Officers	Bachelor's	Bachelor's and related work experience
13-2081	Tax Examiners, Collectors, and Revenue Agents	Bachelor's	Bachelor's and related work experience
13-2082	Tax Preparers	Postsecondary training	Postsecondary training and related work experience
13-2099	Financial Specialists, All Other	Bachelor's	Bachelor's and related work experience
<b>Professional and Related</b>			
15-1011	Computer and Information Scientists, Research	Master's	Master's and related work experience
15-1021	Computer Programmers	Bachelor's	Bachelor's and related work experience
15-1031	Computer Software Engineers, Applications	Bachelor's	Bachelor's and related work experience
15-1032	Computer Software Engineers, Systems Software	Bachelor's	Bachelor's and related work experience
15-1041	Computer Support Specialists	Postsecondary training	Bachelor's
15-1051	Computer Systems Analysts	Bachelor's	Bachelor's and related work experience
15-1061	Database Administrators	Bachelor's	Master's
15-1071	Network and Computer Systems Administrators	Bachelor's	Bachelor's and related work experience
15-1081	Network Systems and Data Communications Analysts	Bachelor's	Bachelor's and related work experience
15-1099	Computer Specialists, All Other	Postsecondary training	Bachelor's
15-2011	Actuaries	Bachelor's	Master's

## High-Skill Occupations

Those occupations with a minimum requirement of postsecondary training or higher AND those occupations with long-term on-the-job training or related work experience as a minimum requirement, and postsecondary or above as a competitive requirement.

Oregon Statewide and All Regions

SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
15-2021	Mathematicians	Bachelor's	Master's
15-2031	Operations Research Analysts	Bachelor's	Master's
15-2041	Statisticians	Bachelor's	Master's
15-2091	Mathematical Technicians	Associate	Bachelor's
17-1011	Architects, Except Landscape and Naval	Bachelor's	Master's
17-1012	Landscape Architects	Bachelor's	Bachelor's and related work experience
17-1021	Cartographers and Photogrammetrists	Bachelor's	Bachelor's and related work experience
17-1022	Surveyors	Bachelor's	Bachelor's and related work experience
17-2011	Aerospace Engineers	Bachelor's	Master's
17-2021	Agricultural Engineers	Bachelor's	Master's
17-2031	Biomedical Engineers	Bachelor's	Master's
17-2041	Chemical Engineers	Bachelor's	Master's
17-2051	Civil Engineers	Bachelor's	Master's
17-2061	Computer Hardware Engineers	Bachelor's	Master's
17-2071	Electrical Engineers	Bachelor's	Master's
17-2072	Electronics Engineers, Except Computer	Bachelor's	Master's
17-2081	Environmental Engineers	Bachelor's	Master's
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspector	Bachelor's	Master's
17-2112	Industrial Engineers	Bachelor's	Master's
17-2121	Marine Engineers and Naval Architects	Bachelor's	Master's
17-2131	Materials Engineers	Bachelor's	Master's
17-2141	Mechanical Engineers	Bachelor's	Master's
17-2151	Mining and Geological Engineers, Including Mining Safety Engineer	Bachelor's	Master's
17-2199	Engineers, All Other	Bachelor's	Master's
17-3011	Architectural and Civil Drafters	Postsecondary training	Postsecondary training and related work experience
17-3012	Electrical and Electronics Drafters	Postsecondary training	Postsecondary training and related work experience
17-3013	Mechanical Drafters	Postsecondary training	Postsecondary training and related work experience
17-3019	Drafters, All Other	Postsecondary training	Postsecondary training and related work experience
17-3022	Civil Engineering Technicians	Associate	Associate and related work experience
17-3023	Electrical and Electronic Engineering Technicians	Associate	Associate and related work experience
17-3024	Electro-Mechanical Technicians	Associate	Associate and related work experience
17-3025	Environmental Engineering Technicians	Associate	Associate and related work experience
17-3026	Industrial Engineering Technicians	Associate	Associate and related work experience
17-3027	Mechanical Engineering Technicians	Associate	Associate and related work experience
17-3029	Engineering Technicians, All Other	Associate	Associate and related work experience
19-1011	Animal Scientists	Bachelor's	Master's
19-1012	Food Scientists and Technologists	Bachelor's	Master's
19-1013	Soil and Plant Scientists	Bachelor's	Master's
19-1021	Biochemists and Biophysicists	Bachelor's	Master's
19-1022	Microbiologists	Bachelor's	Master's
19-1023	Zoologists and Wildlife Biologists	Master's	Doctorate
19-1029	Biological Scientists, All Other	Bachelor's	Master's
19-1031	Conservation Scientists	Bachelor's	Master's
19-1032	Foresters	Bachelor's	Master's
19-1041	Epidemiologists	Doctorate	Doctorate and related work experience
19-1042	Medical Scientists, Except Epidemiologists	Doctorate	Doctorate and related work experience
19-1099	Life Scientists, All Other	Bachelor's	Master's
19-2011	Astronomers	Master's	Doctorate
19-2012	Physicists	Master's	Doctorate
19-2021	Atmospheric and Space Scientists	Bachelor's	Master's
19-2031	Chemists	Bachelor's	Master's
19-2032	Materials Scientists	Bachelor's	Master's
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's	Master's
19-2042	Geoscientists, Except Hydrologists and Geographers	Bachelor's	Master's
19-2043	Hydrologists	Bachelor's	Master's
19-2099	Physical Scientists, All Other	Bachelor's	Master's
19-3011	Economists	Bachelor's	Master's
19-3021	Market Research Analysts	Bachelor's	Master's
19-3022	Survey Researchers	Bachelor's	Master's
19-3031	Clinical, Counseling, and School Psychologist	Master's	Doctorate
19-3032	Industrial-Organizational Psychologist	Master's	Doctorate
19-3039	Psychologists, All Other	Master's	Doctorate
19-3041	Sociologists	Master's	Doctorate
19-3051	Urban and Regional Planners	Master's	Master's and related work experience
19-3091	Anthropologists and Archeologists	Bachelor's	Master's
19-3092	Geographers	Bachelor's	Master's
19-3093	Historians	Master's	Doctorate
19-3099	Social Scientists and Related Workers, All Other	Bachelor's	Master's
19-4011	Agricultural and Food Science Technicians	Associate	Associate and related work experience
19-4021	Biological Technicians	Associate	Bachelor's
19-4031	Chemical Technicians	Associate	Bachelor's
19-4041	Geological and Petroleum Technicians	Associate	Associate and related work experience
19-4051	Nuclear Technicians	Associate	Associate and related work experience
19-4061	Social Science Research Assistants	Postsecondary training	Bachelor's

## High-Skill Occupations

Those occupations with a minimum requirement of postsecondary training or higher AND those occupations with long-term on-the-job training or related work experience as a minimum requirement, and postsecondary or above as a competitive requirement.

Oregon Statewide and All Regions

SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
19-4091	Environmental Science and Protection Technicians, Including Health	Associate	Bachelor's
19-4092	Forensic Science Technicians	Bachelor's	Master's
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate	Bachelor's
21-1011	Substance Abuse and Behavioral Disorder Counselors	Associate	Bachelor's
21-1012	Educational, Vocational, and School Counselors	Master's	Master's and related work experience
21-1013	Marriage and Family Therapists	Master's	Master's and related work experience
21-1014	Mental Health Counselors	Master's	Master's and related work experience
21-1015	Rehabilitation Counselors	Master's	Master's and related work experience
21-1019	Counselors, All Other	Master's	Master's and related work experience
21-1021	Child, Family, and School Social Workers	Bachelor's	Master's
21-1022	Medical and Public Health Social Workers	Bachelor's	Master's
21-1023	Mental Health and Substance Abuse Social Workers	Master's	Master's and related work experience
21-1029	Social Workers, All Other	Bachelor's	Bachelor's and related work experience
21-1091	Health Educators	Master's	Master's and related work experience
21-1092	Probation Officers and Correctional Treatment Specialists	Bachelor's	Bachelor's and related work experience
21-2011	Clergy	Bachelor's	1st Professional
21-2021	Directors, Religious Activities and Education	Bachelor's	Bachelor's and related work experience
21-2099	Religious Workers, All Other	Bachelor's	Bachelor's and related work experience
23-1011	Lawyers	1st Professional	1st Professional and related work experience
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	1st Professional	1st Professional and related work experience
23-1022	Arbitrators, Mediators, and Conciliators	Bachelor's	1st Professional
23-1023	Judges and Magistrates	1st Professional	1st Professional and related work experience
23-2011	Paralegals and Legal Assistants	Associate	Bachelor's
23-2091	Court Reporters	Postsecondary training	Postsecondary training and related work experience
23-2092	Law Clerks	Bachelor's	Bachelor's and related work experience
23-2099	Legal Support Workers, All Other	Postsecondary training	Associate
25-1191	Graduate Teaching Assistants	Bachelor's	Master's
25-1199	Postsecondary Teachers, Except Graduate Teaching Assistants	Master's	Doctorate
25-2011	Preschool Teachers, Except Special Educators	Postsecondary training	Bachelor's
25-2012	Kindergarten Teachers, Except Special Educators	Bachelor's	Master's
25-2021	Elementary School Teachers, Except Special Educators	Bachelor's	Master's
25-2022	Middle School Teachers, Except Special and Vocational Education	Bachelor's	Master's
25-2023	Vocational Education Teachers, Middle School	Bachelor's	Master's
25-2031	Secondary School Teachers, Except Special and Vocational Education	Bachelor's	Master's
25-2032	Vocational Education Teachers, Secondary School	Bachelor's	Master's
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	Bachelor's	Master's
25-2042	Special Education Teachers, Middle School	Bachelor's	Master's
25-2043	Special Education Teachers, Secondary School	Bachelor's	Master's
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	Bachelor's	Master's
25-3021	Self-Enrichment Education Teachers	Related work experience	Postsecondary training
25-3099	Teachers and Instructors, All Other	Bachelor's	Master's
25-4011	Archivists	Master's	Master's and related work experience
25-4012	Curators	Master's	Master's and related work experience
25-4013	Museum Technicians and Conservators	Master's	Master's and related work experience
25-4021	Librarians	Master's	Master's and related work experience
25-9021	Farm and Home Management Advisors	Bachelor's	Bachelor's and related work experience
25-9031	Instructional Coordinators	Bachelor's	Master's
25-9041	Teacher Assistants	Related work experience	Associate
25-9099	Education, Training, and Library, All Other	Bachelor's	Bachelor's and related work experience
27-1011	Art Directors	Bachelor's	Master's
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Long-term on-the-job training	Bachelor's
27-1014	Multi-Media Artists and Animators	Bachelor's	Master's
27-1019	Artists and Related Workers, All Other	Bachelor's	Master's
27-1021	Commercial and Industrial Designers	Bachelor's	Bachelor's and related work experience
27-1022	Fashion Designers	Bachelor's	Bachelor's and related work experience
27-1024	Graphic Designers	Associate	Bachelor's
27-1025	Interior Designers	Bachelor's	Bachelor's and related work experience
27-1027	Set and Exhibit Designers	Bachelor's	Bachelor's and related work experience
27-1029	Designers, All Other	Postsecondary training	Bachelor's
27-2011	Actors	Long-term on-the-job training	Postsecondary training
27-2012	Producers and Directors	Bachelor's	Bachelor's and related work experience
27-2021	Athletes and Sports Competitors	Long-term on-the-job training	Postsecondary training
27-2022	Coaches and Scouts	Long-term on-the-job training	Bachelor's
27-2023	Umpires, Referees, and Other Sports Officials	Long-term on-the-job training	Bachelor's
27-2032	Choreographers	Related work experience	Associate
27-2041	Music Directors and Composers	Bachelor's	Master's
27-2042	Musicians and Singers	Long-term on-the-job training	Associate
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	Long-term on-the-job training	Associate
27-3012	Public Address System and Other Announcers	Long-term on-the-job training	Bachelor's
27-3021	Broadcast News Analysts	Bachelor's	Bachelor's and related work experience
27-3022	Reporters and Correspondents	Bachelor's	Bachelor's and related work experience
27-3031	Public Relations Specialists	Bachelor's	Bachelor's and related work experience
27-3041	Editors	Bachelor's	Bachelor's and related work experience
27-3042	Technical Writers	Bachelor's	Bachelor's and related work experience

# High-Skill Occupations

Those occupations with a minimum requirement of postsecondary training or higher AND those occupations with long-term on-the-job training or related work experience as a minimum requirement, and postsecondary or above as a competitive requirement.

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SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
27-3043	Writers and Authors	Bachelor's	Bachelor's and related work experience
27-3091	Interpreters and Translators	Long-term on-the-job training	Bachelor's
27-3099	Media and Communication Workers, All Other	Associate	Bachelor's
27-4011	Audio and Video Equipment Technicians	Long-term on-the-job training	Postsecondary training
27-4012	Broadcast Technicians	Associate	Bachelor's
27-4014	Sound Engineering Technicians	Postsecondary training	Postsecondary training and related work experience
27-4021	Photographers	Long-term on-the-job training	Bachelor's
27-4032	Film and Video Editors	Associate	Bachelor's
<b>Health Care</b>			
29-1011	Chiropractors	1st Professional	1st Professional and related work experience
29-1021	Dentists, General	1st Professional	1st Professional and related work experience
29-1029	Dentists, All Other	1st Professional	1st Professional and related work experience
29-1031	Dietitians and Nutritionists	Bachelor's	Bachelor's and related work experience
29-1041	Optometrists	1st Professional	1st Professional and related work experience
29-1051	Pharmacists	1st Professional	1st Professional and related work experience
29-1060	Physicians and Surgeons	1st Professional	1st Professional and related work experience
29-1071	Physician Assistants	Bachelor's	Master's
29-1081	Podiatrists	1st Professional	1st Professional and related work experience
29-1111	Registered Nurses	Associate	Bachelor's
29-1121	Audiologists	Master's	Doctorate
29-1122	Occupational Therapists	Bachelor's	Master's
29-1123	Physical Therapists	Master's	Doctorate
29-1124	Radiation Therapists	Associate	Bachelor's
29-1125	Recreational Therapists	Bachelor's	Bachelor's and related work experience
29-1126	Respiratory Therapists	Associate	Bachelor's
29-1127	Speech and Language Pathologists	Master's	Doctorate
29-1129	Therapists, All Other	Bachelor's	Master's
29-1131	Veterinarians	1st Professional	1st Professional and related work experience
29-1199	Health Diagnosing and Treating Practitioners, All Other	1st Professional	1st Professional and related work experience
29-2011	Medical and Clinical Laboratory Technologists	Postsecondary training	Bachelor's
29-2012	Medical and Clinical Laboratory Technicians	Associate	Associate and related work experience
29-2021	Dental Hygienists	Associate	Bachelor's
29-2031	Cardiovascular Technologists and Technicians	Associate	Associate and related work experience
29-2032	Diagnostic Medical Sonographers and Ultrasound Technologists	Associate	Bachelor's
29-2033	Nuclear Medicine Technologists	Associate	Bachelor's
29-2034	Radiologic, CAT, and MRI Technologists and Technicians	Associate	Bachelor's
29-2041	Emergency Medical Technicians and Paramedics	Postsecondary training	Postsecondary training and related work experience
29-2052	Pharmacy Technicians	Postsecondary training	Associate
29-2053	Psychiatric Technicians	Postsecondary training	Associate
29-2055	Surgical Technologists	Postsecondary training	Associate
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary training	Postsecondary training and related work experience
29-2071	Medical Records and Health Information Technicians	Postsecondary training	Associate
29-2081	Opticians, Dispensing	Long-term on-the-job training	Postsecondary training
29-2091	Orthotists and Prosthetists	Bachelor's	Bachelor's and related work experience
29-2099	Health Technologists and Technicians, All Other	Associate	Bachelor's
29-9011	Occupational Health and Safety Specialists	Bachelor's	Master's
29-9012	Occupational Health and Safety Technicians	Bachelor's	Bachelor's and related work experience
29-9091	Athletic Trainers	Bachelor's	Master's
29-9099	Healthcare Practitioner and Technical Workers, All Other	Associate	Associate and related work experience
31-2011	Occupational Therapist Assistants	Associate	Associate and related work experience
31-2021	Physical Therapist Assistants	Associate	Associate and related work experience
31-9011	Massage Therapists	Postsecondary training	Bachelor's
31-9094	Medical Transcriptionists	Postsecondary training	Associate
<b>Service</b>			
33-1011	Supervisors and Managers of Correctional Officers	Related work experience	Bachelor's
33-1012	Supervisors and Managers of Police and Detectives	Related work experience	Bachelor's
33-1021	Supervisors and Managers of Fire Fighting and Prevention Workers	Related work experience	Bachelor's and related work experience
33-1099	Supervisors and Managers, Protective Service Workers, All Other	Related work experience	Bachelor's
33-2011	Fire Fighters	Long-term on-the-job training	Associate
33-2021	Fire Inspectors and Investigators	Related work experience	Associate
33-2022	Forest Fire Inspectors and Prevention Specialists	Related work experience	Associate
33-3021	Detectives and Criminal Investigators	Related work experience	Postsecondary training
33-3031	Fish and Game Wardens	Associate	Bachelor's
33-3051	Police and Sheriff's Patrol Officers	Long-term on-the-job training	Associate
33-3052	Transit and Railroad Police	Long-term on-the-job training	Postsecondary training
33-9021	Private Detectives and Investigators	Related work experience	Associate
35-1011	Chefs and Head Cooks	Postsecondary training	Postsecondary training and related work experience
35-1012	Supervisors and Managers of Food Preparation and Serving Workers	Related work experience	Postsecondary training
37-1011	Supervisors and Managers of Housekeeping and Janitorial Workers	Related work experience	Postsecondary training
37-1012	Supervisors and Managers of Landscaping and Groundskeeping Workers	Related work experience	Postsecondary training
39-1011	Gaming Supervisors	Long-term on-the-job training	Associate
39-1021	Supervisors and Managers of Personal Service Workers	Related work experience	Postsecondary training
39-5011	Barbers	Postsecondary training	Postsecondary training and related work experience
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary training	Postsecondary training and related work experience

## High-Skill Occupations

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SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
39-5092	Manicurists and Pedicurists	Postsecondary training	Postsecondary training and related work experience
39-5094	Skin Care Specialists	Postsecondary training	Postsecondary training and related work experience
39-6031	Flight Attendants	Long-term on-the-job training	Bachelor's
39-9031	Fitness Trainers and Aerobics Instructors	Related work experience	Postsecondary training
<b>Sales and Related</b>			
41-1011	Supervisors and Managers of Retail Sales Workers	Related work experience	Associate
41-1012	Supervisors and Managers of Non-Retail Sales Workers	Related work experience	Associate
41-3021	Insurance Sales Agents	Bachelor's	Bachelor's and related work experience
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's	Bachelor's and related work experience
41-3041	Travel Agents	Postsecondary training	Associate
41-9021	Real Estate Brokers	Postsecondary training	Postsecondary training and related work experience
41-9022	Real Estate Sales Agents	Postsecondary training	Postsecondary training and related work experience
41-9031	Sales Engineers	Bachelor's	Master's
<b>Office and Administrative Support</b>			
43-1011	Supervisors and Managers of Office and Administrative Support Workers	Related work experience	Associate
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Postsecondary training	Associate
43-4141	New Accounts Clerks	Related work experience	Bachelor's
43-5061	Production, Planning, and Expediting Clerks	Related work experience	Bachelor's
43-6012	Legal Secretaries	Postsecondary training	Associate
43-9031	Desktop Publishers	Postsecondary training	Postsecondary training and related work experience
<b>Farming, Fishing, and Forestry</b>			
45-2011	Agricultural Inspectors	Bachelor's	Bachelor's and related work experience
<b>Construction and Extraction</b>			
47-1011	Supervisors and Managers of Construction Trades and Extraction Workers	Related work experience	Bachelor's
47-2011	Boilermakers	Long-term on-the-job training	Postsecondary training
47-2021	Brickmasons and Blockmasons	Long-term on-the-job training	Postsecondary training
47-2022	Stonemasons	Long-term on-the-job training	Postsecondary training
47-2031	Carpenters	Long-term on-the-job training	Postsecondary training
47-2072	Pile-Driver Operators	Postsecondary training	Postsecondary training and related work experience
47-2111	Electricians	Postsecondary training	Postsecondary training and related work experience
47-2121	Glaziers	Long-term on-the-job training	Postsecondary training
47-2152	Plumbers, Pipefitters, and Steamfitters	Postsecondary training	Postsecondary training and related work experience
47-2211	Sheet Metal Workers	Postsecondary training	Postsecondary training and related work experience
47-2221	Structural Iron and Steel Workers	Postsecondary training	Postsecondary training and related work experience
47-4011	Construction and Building Inspectors	Related work experience	Associate
47-4021	Elevator Installers and Repairers	Postsecondary training	Postsecondary training and related work experience
<b>Installation, Maintenance, and Repair</b>			
49-1011	Supervisors and Managers of Mechanics, Installers, and Repairers	Related work experience	Associate
49-2011	Computer, Automated Teller, and Office Machine Repairers	Postsecondary training	Associate
49-2021	Radio Mechanics	Postsecondary training	Postsecondary training and related work experience
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary training	Associate
49-2091	Avionics Technicians	Postsecondary training	Associate
49-2092	Electric Motor, Power Tool, and Related Repairers	Long-term on-the-job training	Postsecondary training
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	Postsecondary training	Associate
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary training	Associate
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Related	Postsecondary training	Postsecondary training and related work experience
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	Postsecondary training	Postsecondary training and related work experience
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	Postsecondary training	Postsecondary training and related work experience
49-3011	Aircraft Mechanics and Service Technicians	Postsecondary training	Associate
49-3021	Automotive Body and Related Repairers	Postsecondary training	Postsecondary training and related work experience
49-3023	Automotive Service Technicians and Mechanics	Postsecondary training	Associate
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	Long-term on-the-job training	Postsecondary training
49-3041	Farm Equipment Mechanics	Long-term on-the-job training	Postsecondary training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	Long-term on-the-job training	Postsecondary training
49-3052	Motorcycle Mechanics	Long-term on-the-job training	Postsecondary training
49-3092	Recreational Vehicle Service Technicians	Postsecondary training	Associate
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Long-term on-the-job training	Postsecondary training
49-9031	Home Appliance Repairers	Long-term on-the-job training	Postsecondary training
49-9041	Industrial Machinery Mechanics	Postsecondary training	Postsecondary training and related work experience
49-9042	Maintenance and Repair Workers, General	Long-term on-the-job training	Associate
49-9043	Maintenance Workers, Machinery	Long-term on-the-job training	Associate
49-9044	Millwrights	Postsecondary training	Postsecondary training and related work experience
49-9051	Electrical Power-Line Installers and Repairers	Postsecondary training	Postsecondary training and related work experience
49-9052	Telecommunications Line Installers and Repairers	Long-term on-the-job training	Associate
49-9062	Medical Equipment Repairers	Postsecondary training	Associate
49-9063	Musical Instrument Repairers and Tuners	Long-term on-the-job training	Associate
49-9064	Watch Repairers	Long-term on-the-job training	Postsecondary training
49-9069	Precision Instrument and Equipment Repairers, All Other	Long-term on-the-job training	Postsecondary training
49-9097	Signal and Track Switch Repairers	Postsecondary training	Postsecondary training and related work experience
49-9099	Installation, Maintenance, and Repair Workers, All Other	Long-term on-the-job training	Postsecondary training
<b>Production</b>			
51-1011	Supervisors and Managers of Production and Operating Workers	Related work experience	Bachelor's
51-3021	Butchers and Meat Cutters	Long-term on-the-job training	Postsecondary training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	Long-term on-the-job training	Postsecondary training

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SOC Code	SOC Title	Minimum Educational Requirement	Competitive Educational Requirement
51-4012	Numerical Tool and Process Control Programmers	Postsecondary training	Postsecondary training and related work experience
51-4041	Machinists	Long-term on-the-job training	Postsecondary training
51-4111	Tool and Die Makers	Postsecondary training	Postsecondary training and related work experience
51-4121	Welders, Cutters, Solderers, and Brazers	Long-term on-the-job training	Postsecondary training
51-5022	Prepress Technicians and Workers	Long-term on-the-job training	Postsecondary training
51-6052	Tailors, Dressmakers, and Custom Sewers	Related work experience	Postsecondary training
51-8012	Power Distributors and Dispatchers	Long-term on-the-job training	Bachelor's
51-8013	Power Plant Operators	Long-term on-the-job training	Bachelor's
51-8031	Water and Liquid Waste Treatment Plant and System Operators	Postsecondary training	Postsecondary training and related work experience
51-8091	Chemical Plant and System Operators	Long-term on-the-job training	Postsecondary training
51-8092	Gas Plant Operators	Long-term on-the-job training	Postsecondary training
51-8099	Plant and System Operators, All Other	Long-term on-the-job training	Postsecondary training
51-9071	Jewelers and Precious Stone and Metal Workers	Postsecondary training	Postsecondary training and related work experience
51-9081	Dental Laboratory Technicians	Long-term on-the-job training	Postsecondary training
51-9123	Painting, Coating, and Decorating Workers	Long-term on-the-job training	Postsecondary training
51-9141	Semiconductor Processors	Associate	Associate and related work experience
51-9194	Etchers and Engravers	Long-term on-the-job training	Postsecondary training
<b>Transportation and Material Moving</b>			
53-1021	Supervisors and Managers of Transportation Helpers, Laborers, and Material Movers, Hand	Related work experience	Associate
53-1031	Supervisors and Managers of Transportation and Material-Moving Machine and Vehicle Operator	Related work experience	Bachelor's
53-2011	Airline Pilots, Copilots, and Flight Engineers	Postsecondary training	Postsecondary training and related work experience
53-2012	Commercial Pilots, Exclude Airline Pilots	Postsecondary training	Postsecondary training and related work experience
53-2021	Air Traffic Controllers	Long-term on-the-job training	Postsecondary training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	Postsecondary training	Postsecondary training and related work experience
53-5021	Captains, Mates, and Pilots of Water Vessels	Long-term on-the-job training	Bachelor's
53-5031	Ship Engineers	Related work experience	Postsecondary training
53-6051	Transportation Inspectors	Related work experience	Bachelor's