



## Architecture and Construction

### Highlights at a Glance

- Demographic factors will positively affect the need for architectural services. The aging population will need more healthcare facilities, nursing homes, and retirement communities. As school enrollments continue to increase, many districts and universities will need to renovate or replace aging facilities. Employment is expected to grow faster than the average for all occupations.
- Recently, basic design and construction documents usually developed by lower-level architects and interns are being outsourced to overseas firms. This will impact their employment growth and ability to gain experience.
- The construction industry is expected to provide ample job opportunities especially for skilled and experienced trade workers. This industry includes a very large number of self-employed workers, many establishments which employ fewer than five people, and workers with relatively high hourly earnings.
- The construction industry has been strongly affected by the recent credit crisis and recession. New housing has dropped significantly, businesses and retailers are delaying building new offices and stores, and State and local governments are reducing spending. However, rising energy costs are promoting “green construction” of energy-efficient buildings and renovations to promote environmentally-friendly buildings.

### Nature of the Industry

**Construction (NAICS 23):** The construction industry contains three major segments. The construction of buildings includes contractors who build residential, industrial, commercial and other buildings. Heavy and civil engineering contractors build sewers, roads, highways and other infrastructure projects. Specialty trade contractors perform specialized work in carpentry, painting, plumbing and electrical work. Most of the workers are construction trades workers, which include master, journey, and apprentice craft workers, and construction laborers. Most are considered structural, finishing, or mechanical workers.

**Architecture, Engineering and Related Services (NAICS 5413):** Coverage within this industry includes architecture, engineering, drafting, building inspection, and surveying and mapping services. Architects design public and private rooms, buildings or complexes. They are licensed professionals trained in the art and science of design; they develop concepts for a variety of structures and convert the concepts into images and plans.

**Specialized Design Services (NAICS 5414):** This industry includes interior design, industrial design, and graphic design services. The interior design sector establishments are primarily engaged in planning, designing, and administering projects in interior spaces to meet the physical and aesthetic needs of people using them. Design responsibilities are also required for industrial designers and graphic designers.

Standard Occupational Classification (SOC) Code	Title	Employment 2014	Employment Change 2014-2024		Average Annual Job Openings due to			2015 Median Annual Wage	Training/Education Level
			Number	Percent	Growth	Replcmnts	Total		
<b>00-0000</b>	<b>Total, All Occupations</b>	<b>6,263,919</b>	<b>371,593</b>	<b>5.93</b>	<b>42,732</b>	<b>147,453</b>	<b>190,185</b>	<b>\$37,316</b>	
<b>Design/Pre-Construction</b>									
17-2141	Mechanical Engineers	12,055	654	5.43	65	382	447	\$84,543	Bachelor's degree
17-2051	Civil Engineers	10,625	931	8.76	93	314	407	\$84,434	Bachelor's degree
11-9041	Architectural & Engineering Managers	6,856	228	3.33	23	210	233	\$122,943	Bachelor's degree
17-1011	Architects	5,345	238	4.45	24	88	112	\$74,153	Bachelor's degree
27-1025	Interior Designers	2,416	108	4.47	11	58	69	\$47,845	Associate degree
17-2081	Environmental Engineers	1,391	217	15.60	22	39	61	\$84,606	Bachelor's degree
17-1022	Surveyors	1,170	-48	-4.10	0	36	36	\$57,026	Bachelor's degree
17-3011	Architectural & Civil Drafters	2,952	-122	-4.13	0	35	35	\$47,317	Associate degree
17-3013	Mechanical Drafters	2,430	-173	-7.12	0	29	29	\$52,192	Postsecondary vocational award
19-3051	Urban & Regional Planners	692	10	1.45	1	13	14	\$81,513	Master's degree
<b>Construction</b>									
47-2111	Electricians	24,421	3,668	15.02	367	373	740	\$74,060	Long-term on-the-job training
47-2031	Carpenters	31,663	1,560	4.93	156	364	520	\$55,212	Long-term on-the-job training
47-2152	Plumbers	17,107	2,105	12.30	210	226	436	\$76,037	Long-term on-the-job training
13-1051	Cost Estimators	7,132	541	7.59	54	203	257	\$66,339	Work exp. in a related occupation
47-2141	Painters, Construction & Maintenance	11,277	670	5.94	67	179	246	\$49,207	Moderate-term on-the-job training
49-9021	Heat, A/C & Refrig Mechanics/Installers	7,700	1,191	15.47	119	118	237	\$53,073	Long-term on-the-job training
47-2073	Operating Engrs/Constrctn Eqpt Opers	9,895	687	6.94	69	165	234	\$74,626	Moderate-term on-the-job training
47-1011	1st-Line Supvrs/Mgrs, Const. Trades	12,514	1,071	8.56	107	99	206	\$76,413	Work exp. in a related occupation
11-9021	Construction Managers	11,130	252	2.26	25	156	181	\$91,631	Bachelor's degree
47-2181	Roofers	5,264	727	13.81	73	80	153	\$41,891	Moderate-term on-the-job training
47-2051	Cement Masons & Concrete Finishers	5,313	620	11.67	62	65	127	\$55,892	Moderate-term on-the-job training
47-2021	Brickmasons & Blockmasons	3,978	726	18.25	73	33	106	\$76,922	Long-term on-the-job training
47-4011	Construction & Building Inspectors	3,156	166	5.26	17	88	105	\$66,899	Work exp. in a related occupation
47-2211	Sheet Metal Workers	3,440	252	7.33	25	74	99	\$77,336	Long-term on-the-job training
47-2221	Structural Iron & Steel Workers	2,903	90	3.10	9	48	57	\$88,070	Long-term on-the-job training
47-2044	Tile & Marble Setters	1,570	95	6.05	10	22	32	\$47,108	Long-term on-the-job training
<b>Maintenance/Operations</b>									
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47-2181	Roofers	5,264	727	13.81	73	80	153	\$41,891	Moderate-term on-the-job training
17-3022	Civil Engineering Techs	2,515	88	3.50	9	62	71	\$55,036	Associate degree
47-2121	Glaziers	1,362	73	5.36	7	20	27	\$40,638	Long-term on-the-job training
17-3025	Environmental Engineering Technicians	657	34	5.18	3	16	19	\$40,336	Associate degree

Source: IL Dept. of Employment Security, Economic Information & Analysis Division