

Appendix table 3-7

(Page 1 of 3)

Bureau of Labor Statistics projections of occupational employment: 2004–14

(Thousands)

Occupation	BLS National Employment Matrix 2004 estimate	BLS projected 2014 employment	Job openings from growth and net replacements, 2004–14	10-year growth in total employment (%)	10-year job openings as percent of 2004 employment
All occupations	145,612	164,540	54,680	13.0	37.6
All S&E	5,101	6,416	2,174	25.8	42.6
Computer and mathematical scientists	2,678	3,632	1,261	35.6	47.1
Mathematicians	3	3	1	-1.3	44.0
Operations research analysts	58	62	17	8.4	30.3
Statisticians	19	20	6	4.6	30.9
Mathematical scientists, all other	9	9	2	6.2	28.9
Computer and information scientists, research	22	28	8	25.6	36.9
Computer software engineers, applications	460	682	268	48.4	58.3
Computer software engineers, systems software	340	486	180	43.0	52.8
Computer support specialists	518	638	183	23.0	35.3
Computer systems analysts	487	640	208	31.4	42.8
Database administrators	104	144	51	38.2	48.6
Network and computer systems administrators	278	385	138	38.4	49.5
Network systems and data communications analysts	231	357	153	54.6	66.3
Computer specialists, all other	149	177	45	19.0	30.3
Engineers	1,449	1,644	507	13.4	35.0
Aerospace engineers	76	82	25	8.3	33.0
Agricultural engineers	3	4	2	12.0	44.9
Biomedical engineers	10	13	5	30.7	47.8
Chemical engineers	31	34	12	10.6	40.5
Civil engineers	237	276	77	16.5	32.4
Computer hardware engineers	77	84	20	10.1	26.8
Electrical engineers	156	174	49	11.8	31.4
Electronics engineers, except computer	143	157	42	9.7	29.4
Environmental engineers	49	64	23	30.0	47.0
Health and safety engineers, except mining safety engineers and inspectors.....	27	30	10	13.4	37.6
Industrial engineers	177	205	71	16.0	40.2
Marine engineers and naval architects	7	7	4	8.5	55.7
Materials engineers	21	24	8	12.2	38.5
Mechanical engineers	226	251	87	11.1	38.5
Mining and geological engineers, including mining safety engineers	5	5	2	-1.5	28.9
Nuclear engineers	17	19	6	7.3	37.1
Petroleum engineers	16	16	5	-0.1	31.8
Engineers, all other	172	198	59	15.4	34.5
Life scientists	232	280	103	20.8	44.6
Animal scientists	3	3	1	12.9	30.7
Food scientists and technologists	11	12	3	10.9	28.7
Soil and plant scientists	17	19	5	13.9	31.6
Biochemists and biophysicists	16	20	8	21.0	52.3
Microbiologists	15	18	7	17.2	48.5
Zoologists and wildlife biologists	16	19	7	13.0	44.3
Biological scientists, all other	29	34	14	17.1	48.3
Conservation scientists	19	20	7	6.3	35.5
Foresters	13	14	5	6.7	35.9
Epidemiologists	5	6	2	26.2	43.8
Medical scientists, except epidemiologists	72	97	37	34.1	51.7
Life scientists, all other	15	19	6	20.6	38.2
Physical scientists	250	281	94	12.2	37.4
Astronomers	1	1	0	10.4	43.0
Physicists	15	16	6	7.0	39.4
Atmospheric and space scientists	7	9	4	16.5	55.9
Chemists	82	88	33	7.3	40.0
Materials scientists	8	8	3	8.0	40.7
Environmental scientists and specialists, including health	73	86	26	17.1	34.9
Geoscientists, except hydrologists and geographers	28	30	7	8.3	26.0
Hydrologists	8	11	4	31.6	49.3

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(Page 2 of 3)

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Physical scientists, all other.....	29	33	11	14.6	37.4
Social scientists	492	580	209	17.9	42.5
Economists	13	13	4	5.6	34.6
Market research analysts	190	227	86	19.6	45.5
Survey researchers	22	28	12	25.9	51.8
Clinical, counseling, and school psychologists	167	199	68	19.1	41.0
Industrial-organizational psychologists	2	3	1	20.4	42.3
Psychologists, all other.....	10	11	3	9.9	31.1
Sociologists.....	5	5	2	4.7	39.8
Urban and regional planners.....	32	37	16	15.2	48.5
Anthropologists and archeologists	5	6	2	17.0	37.1
Geographers	1	1	0	6.8	26.9
Historians.....	3	3	1	4.3	24.5
Political scientists.....	5	5	1	7.3	27.5
Social scientists and related workers, all other	38	42	13	12.3	33.5
Selected other occupations					
Science and engineering managers.....	513	616	200	20.1	39.0
Engineering managers	190	215	63	13.0	32.9
Natural sciences managers	42	48	14	13.6	32.9
Computer and information systems managers.....	280	353	124	25.9	44.1
Education administrators, postsecondary	132	160	61	21.3	46.2
Science and engineering technicians.....	874	986	303	12.8	34.7
Aerospace engineering and operations technicians	10	10	3	8.5	29.5
Civil engineering technicians	94	107	33	14.1	35.0
Electrical and electronic engineering technicians.....	182	199	56	9.8	30.7
Electro-mechanical technicians.....	19	21	6	9.7	30.6
Environmental engineering technicians	20	25	9	24.4	45.4
Industrial engineering technicians	69	76	22	10.5	31.4
Mechanical engineering technicians.....	48	54	16	12.3	33.2
Engineering technicians, except drafters, all other	91	102	33	12.3	36.4
Agricultural and food science technicians.....	23	26	7	13.4	32.7
Biological technicians.....	64	75	22	17.2	34.1
Chemical technicians	62	65	18	4.4	29.4
Geological and petroleum technicians	11	12	3	6.5	32.0
Nuclear technicians.....	7	8	3	13.7	40.6
Social science research assistants	18	21	7	17.4	41.0
Environmental science and protection technicians, including health	31	36	12	16.3	39.8
Forensic science technicians.....	10	13	6	36.4	60.0
Forest and conservation technicians.....	33	35	10	6.6	30.2
Life, physical, and social science technicians, all other	83	100	36	20.0	43.6
Computer programmers	455	464	117	2.0	25.6
Postsecondary teachers and administrators.....	1,760	2,312	953	31.4	54.1
Postsecondary teachers	1,628	2,153	892	32.2	54.8
Postsecondary administrators	132	160	61	21.3	46.2
Health diagnosing and treating practitioners.....	4,190	5,330	1,960	27.2	46.8
Chiropractors	53	64	22	22.4	41.3
Dentists.....	150	171	46	13.5	30.3
Dentists, general.....	128	145	39	13.5	30.3
Oral and maxillofacial surgeons.....	6	7	2	16.2	32.9
Orthodontists	10	11	3	12.8	29.5
Prosthodontists	1	1	0	13.6	30.4
Dentists, all other specialists	5	6	1	12.2	29.0
Dietitians and nutritionists.....	50	59	22	18.3	44.4
Optometrists	34	40	16	19.7	47.5
Pharmacists	230	287	101	24.6	44.0
Physicians and surgeons	567	702	212	24.0	37.3
Physician assistants	62	93	40	49.6	65.0

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(Page 3 of 3)

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Podiatrists	10	12	4	16.2	40.6
Registered nurses	2,394	3,096	1,203	29.4	50.3
Audiologists	10	11	3	9.1	33.3
Occupational therapists.....	92	123	43	33.6	47.1
Physical therapists	155	211	72	36.7	46.6
Radiation therapists	15	19	7	26.3	49.1
Recreational therapists.....	24	25	7	5.7	29.6
Respiratory therapists	94	120	57	28.4	61.3
Speech-language pathologists	96	110	38	14.6	39.4
Therapists, all other.....	24	28	9	15.0	36.7
Veterinarians	61	71	25	17.4	41.5
Health diagnosing and treating practitioners, all other	72	88	32	22.5	44.2

BLS = Bureau of Labor Statistics

NOTES: BLS National Employment Matrix is special estimate of employment in occupations distributed across specific industries used by BLS in forecasting. It is proper baseline for comparison of BLS's occupational projections, but is not BLS's principal estimate of occupational employment in United States.

SOURCE: BLS, Office of Occupational Statistics and Employment Projections, National Industry-Occupation Employment Projections 2004–2014 (2004).

Science and Engineering Indicators 2008