Gaps by CIP Codes - Number of New Completers Needed by CIP Code to Help Meet Total Annual Demand for All Gap 4 & 5 Star Jobs
"HIGH PRIORITY FIELDS"

Tier 1 CIP Codes:

Computer and Information Science

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"11.10"	Computer/Information Technology Administration and Management	196.18	182.28
"11.0701"	Computer Science	143.65	138.85
"11.02"	Computer Programming	18.29	17.80
"11.01"	Computer and Information Sciences, General	12.97	11.03
"11.0901"	Computer Systems Networking and Telecommunications	2.75	0.00
"11.99"	Computer and Information Science and Support Services, Other	2.67	2.23
"11.0401"	Information Sciences/Studies	0.59	0.2
"11.08"	Computer Software and Media Applications	0.20	0.14

Engineering

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"14.1401"	Environmental/Environmental Health Engineering	126.00	105.91
"14.0701"	Chemical Engineering	108.18	101.61
"14.2501"	Petroleum Engineering	93.14	87.18
"14.1901"	Mechanical Engineering	66.53	62.48
"14.0901"	Computer Engineering, General	54.09	53.68
"14.0801"	Civil Engineering, General	50.00	32.76
"14.10"	Electrical, Electronics and Communications Engineering	46.07	38.39
"14.2201"	Naval Architecture and Marine Engineering	43.53	42.67
"14.0101"	Engineering, General	32.42	18.83
"14.3501"	Industrial Engineering	8.89	5.17

Engineering Technology

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"15.0699"	Industrial Production Technologies/Technicians, Other	1,214.14	894.93
"15.0612"	Industrial Technology/Technician	457.06	342.38
"15.1102"	Surveying Technology/Surveying	240.10	239.64
"15.13"	Drafting/Design Engineering Technologies/Technicians	181.01	3.52
"15.0000"	Engineering Technology, General	161.86	137.03
"15.04"	Electromechanical Instrumentation and Maintenance Technologies/Technicians (excluding Biomedical Technology)	130.44	4.68
"15.0903"	Petroleum Technology/Technician	45.00	45.00
"15.1501"	Engineering/Industrial Management	19.88	0.40
"15.03"	Electrical Engineering Technologies/Technicians	12.88	12.03
"15.1001"	Construction Engineering Technology/Technician	9.98	5.00
"15.0701"	Occupational Safety and Health Technology/Technician	3.08	3.17
"15.0201"	Civil Engineering Technology/Technician	1.59	0.88

Mathematics and Statistics

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"27.0501"	Statistics, General	48.51	48.51
"27.0301"	Applied Mathematics, General	3.73	3.73

Science Technologies

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"41.9999"	Science Technologies/Technicians, Other	59.25	59.25
"41.0204"	Industrial Radiologic Technology/Technician	25.00	25.00

Construction Trades

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"46.0201"	Carpentry/Carpenter	1,646.81	851.83
"46.0000"	Construction Trades, General	1,470.06	1,000.90
"46.0302"	Electrician	1,221.05	1,187.47
"46.0503"	Plumbing Technology/Plumber	891.25	890.61
"46.0301"	Electrical and Power Transmission Installation/Installer, General	509.00	379.00
"46.0101"	Mason/Masonry	477.82	298.33
"46.0401"	Building/Property Maintenance	313.77	243.36
"46.0504"	Well Drilling/Driller	200.43	150.40

Mechanic and Repair Technologies

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"47.0303"	Industrial Mechanics and Maintenance Technology	572.64	391.47
"47.0399"	Heavy/Industrial Equipment Maintenance Technologies, Other	219.08	149.06
"47.0201"	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	202.00	202.00
"47.0603"	Autobody/Collision and Repair Technology/Technician	63.20	23.20
"47.0605"	Diesel Mechanics Technology/Technician	54.00	0.00
"47.0608"	Aircraft Powerplant Technology/Technician	52.00	52.00
"47.0609"	Avionics Maintenance Technology/Technician	13.00	3.00

Precision Production

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"48.0508"	Welding Technology/Welder	1,864.00	1,864.00
"48.0501"	Machine Tool Technology/Machinist	83.52	66.77
"48.0510"	Computer Numerically Controlled (CNC) Machinist Technology/CNC Machinist	1.84	2.01

Transportation and Material Moving

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"49.0202"	Construction/Heavy Equipment/Earthmoving Equipment Operation	1656.80	761.63
"49.0205"	Truck and Bus Driver/Commercial Vehicle Operator and Instructor	236.85	39.75

Health

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"51.2202"	Environmental Health	11.22	11.87

Business Management

CIP Code	CIP Description	Short-Term Gap	Long-Term Gap
"52.0302"	Accounting Technology/Technician and Bookkeeping	983.44	904.30
"52.0801"	Finance, General	708.10	630.19
"52.0101"	Business/Commerce, General	606.47	373.51
"52.02"	Business Administration, Management and Operations	365.18	24.66
"52.1301"	Management Science	230.08	226.75
"52.0301"	Accounting	195.76	195.26
"52.0409"	Parts, Warehousing, and Inventory Management Operations	111.41	90.04
"52.2001"	Construction Management	98.38	83.19
"52.1201"	Management Information Systems, General	29.00	28.34
"52.0305"	Accounting and Business/Management	19.59	17.68
"52.1299"	Management Information Systems and Services, Other	6.69	6.54
"52.1601"	Taxation	5.98	5.51
"52.1001"	Human Resources Management/Personnel Administration, General	0.77	0.18
"52.9999"	Business, Management, Marketing, and Related Support Services, Other	0.75	0.00
"52.0304"	Accounting and Finance	0.65	0.59
"52.1701"	Insurance	0.57	0.00

Tier 2 CIP Codes:

Education			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"13.10"	Special Education and Teaching	17.85	29.08
"13.13"	Teacher Education and Professional Development, Specific Levels and Methods	9.45	39.68
"13.1203"	Junior High/Intermediate/Middle School Education and Teaching	0.00	3.38

Engineering Technology			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"15.0401"	Biomedical Technology/Technician	17.53	17.53

Library Science			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"25.0101"	Library and Information Science	18.42	16.10

Physical Sciences			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"40.05"	Chemistry	5.61	2.58

Health			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"51.0904"	Emergency Medical Technology/Technician (EMT Paramedic)	419.34	147.13
"51.0705"	Medical Office Management/Administration	95.64	65.68
"51.2308"	Physical Therapy/Therapist	95.05	88.26
"51.0706"	Health Information/Medical Records Administration/Administrator	55.11	37.85
"51.1005"	Clinical Laboratory Science/Medical Technology/Technologist	51.53	47.24
"51.3899"	Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing, Other	39.97	35.53
"51.3804"	Nurse Anesthetist	36.60	28.33
"51.1501"	Substance Abuse/Addiction Counseling	34.54	16.80
"51.1004"	Clinical/Medical Laboratory Technician	34.40	37.96
"51.0910"	Diagnostic Medical Sonography/Sonographer and Ultrasound Technician	33.00	34.55
"51.0602"	Dental Hygiene/Hygienist	32.00	28.00
"51.3805"	Family Practice Nurse/Nursing	29.05	25.82
"51.2306"	Occupational Therapy/Therapist	24.50	26.82
"51.2001"	Pharmacy	22.04	20.34
"51.0912"	Physician Assistant	17.33	13.00
"51.0908"	Respiratory Care Therapy/Therapist	15.00	18.46
"51.0401"	Dentistry	11.33	3.15
"51.0905"	Nuclear Medical Technology/Technologist	8.83	9.00
"51.0802"	Clinical/Medical Laboratory Assistant	5.47	6.04
"51.3818"	Nursing Practice	3.95	3.51
"51.1508"	Mental Health Counseling/Counselor	3.46	1.20
"51.2003"	Pharmaceutics and Drug Design	1.05	0.97
"51.3803"	Adult Health Nurse/Nursing	0.93	0.83
"51.3809"	Pediatric Nurse/Nursing	0.93	0.83
"51.0509"	Pediatric Dentistry/Pedodontics	0.67	0.19
"51.3806"	Maternal/Child Health and Neonatal Nurse/Nursing	0.23	0.21
"51.0803"	Occupational Therapist Assistant	0.00	1.29
"51.2401"	Veterinary Medicine	0.00	2.09
"51.2501"	Veterinary Sciences/Veterinary Clinical Sciences, General	0.00	0.31

Tier 3 CIP Codes:

Natural Resources and Conservation			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"03.01"	Natural Resources Conservation and Research	1.70	2.08

Communications			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"09.0901"	Organizational Communication, General	8.29	8.50

Law			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"22.0302"	Legal Assistant/Paralegal	78.27	68.57

English and Literature			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"23.1303"	Professional, Technical, Business, and Scientific Writing	9.85	9.86

Public Administration and Social Services			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"44.0201"	Community Organization and Advocacy	38.90	38.81

Transportation and Material Moving			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"49.0304"	Diver, Professional and Instructor	26.00	16.00

Business Management			
CIP Code	**CIP Description**	**Short-Term Gap**	**Long-Term Gap**
"52.0408"	General Office Occupations and Clerical Services	109.23	99.04