



Manufacturing and Industrial Technology & Sheet Metal and Structural Metal Occupations

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Prepared by the South Central Coast Center of Excellence

Current and Future Employment

The manufacturing and industrial technology and sheet metal and structural metal programs train students for twenty-one different manufacturing occupations. Collectively, these occupations are expected to decline by 2% within the South Central Coast region by 2022. Notably, the occupation expecting the largest growth is sheet metal workers. This occupation is expected to grow 11% by 2022, which is an increase of 70 jobs.

Table 1 – Manufacturing and Industrial Technology & Sheet Metal and Structural Metal Occupations (by 2017 jobs)

SOC	Description	2017 Jobs	2022 Jobs	5-Year Change	5-Year % Change	Annual Openings	Median Hourly Earnings
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,709	2,461	(248)	(9%)	329	\$19.55
51-4041	Machinists	3,023	3,034	11	0%	336	\$20.31
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	773	787	14	2%	88	\$20.27
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	702	691	(11)	(2%)	83	\$16.18
47-2211	Sheet Metal Workers	649	719	70	11%	89	\$23.49
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	320	302	(18)	(6%)	Insufficient data	\$12.88
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	620	593	(27)	(4%)	68	\$14.82
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	210	224	14	7%	28	\$17.63
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	241	227	(14)	(6%)	25	\$16.90

29-9011	Occupational Health and Safety Specialists	393	408	15	4%	25	\$39.43
17-3026	Industrial Engineering Technicians	234	228	(6)	(3%)	23	\$30.18
51-4199	Metal Workers and Plastic Workers, All Other	121	119	(2)	(2%)	14	\$17.44
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	139	127	(12)	(9%)	15	\$20.67
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	147	160	13	9%	19	\$28.37
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	78	71	(7)	(9%)	8	\$18.63
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	94	85	(9)	(10%)	9	\$17.74
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	82	81	(1)	(1%)	9	\$17.37
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	49	49	0	0%	6	\$19.16
51-4192	Layout Workers, Metal and Plastic	45	44	(1)	(2%)	5	\$21.79
51-4061	Model Makers, Metal and Plastic	25	25	0	0%	3	\$26.04
51-4062	Patternmakers, Metal and Plastic	11	<10	Insufficient data	Insufficient data	1	\$22.98
Total/Average		10,665	10,446	(219)	(2%)	1,183	\$19.71

Source: EMSI Employment Data – 2016.2

Job Postings, Top Employers and Titles

In 2018, there were a total of 1,355 job postings for manufacturing and industrial technology and sheet metal and structural metal occupations in the South Central Coast region. Nearly 37% of these listings were for inspectors, testers, sorters, samplers, and weighers (499 postings).

Table 2 – Job Postings by Occupation (n=1,355)

SOC Code	Occupation	Job Postings, Full Year 2018
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	499
51-4041	Machinists	237
29-9011	Occupational Health and Safety Specialists	97
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	90
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	41
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	36
47-2211	Sheet Metal Workers	67
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	52
51-4199	Metal Workers and Plastic Workers, All Other	12
17-3026	Industrial Engineering Technicians	204
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	1
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	0
51-4062	Patternmakers, Metal and Plastic	0
51-4061	Model Makers, Metal and Plastic	2
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	13
51-4192	Layout Workers, Metal and Plastic	0
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	0
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	0

Source: Burning Glass

Table 3 lists the top employers hiring manufacturing and industrial technology and sheet metal and structural metal occupations. Top employers include: Rexnord (37 job postings) and Northrop Grumman (33). The majority of employers listed less than 5 postings. Only 60% of job postings included the name of the employer.

Table 3 – Job Postings by Top Employer (n=807)

Employer	Job Postings, Full Year 2018
Rexnord	37
Northrop Grumman	33
Amgen	27
Haas Automation Incorporated	17
Lockheed Martin Corporation	17
Coorstek Incorporated	14
ITT Industries Incorporated	13
Meggitt Plc	13
Triumph Group Incorporated	12
Skyworks	11
Other	613

Source: Burning Glass

The top titles for manufacturing and industrial technology and sheet metal and structural metal occupations are: machinist/CNC machinist, quality control inspector, maintenance worker/technician, quality assurance specialist, and quality assurance inspector. Table 4 lists the top 10 titles.

Table 4 – Top Titles by Number of Job Postings (n=1,355)

Title	Number of Job Postings
Machinist/CNC machinist	189
Quality Control Inspector	189
Maintenance Worker/Technician	122
Quality Assurance Specialist	39
Quality Assurance Inspector	35
CNC Operator	29
Sheet Metal Technician	24
Safety Manager	23
CNC Machine Operator	21
Fabrication Technician	16

Source: Burning Glass

Top Skills Required

Table 5 lists the top 20 skills mentioned in job postings for manufacturing and industrial technology and sheet metal and structural metal occupations. Top skills include: computer numerical control, machining, quality assurance and control, repair, and using lathes.

Table 5 – Top Skills (n=1,156)

Skills	Number of Job Postings
Computer Numerical Control (CNC)	338
Machining	334
Quality Assurance and Control	296
Repair	229
Lathes	173
Micrometers	158
Data Entry	151
Calipers	129
Hand Tools	124
Process Improvement	121
Inspection Records	120
International Traffic in Arms Regulations (ITAR)	116
Machine Tools	114
Basic Mathematics	126
Lifting Ability	93
Coordinate Measuring Machine	90
Machine Operation	90
Machinery	90
Six Sigma	83
Geometric Dimensioning and Tolerance (GD&T)	79

Source: Burning Glass