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Labor Markets in New Mexico’s Career and Technical Education Region G



Region G

Introduction

Career Technical Education (CTE) provides students of all ages with the academic and technical skills necessary to succeed in future careers and to become lifelong learners. In total, about 12.5 million high school and college students are enrolled in CTE across the nation. Funded by the Carl D. Perkins Career and Technical Education Act (Perkins), CTE prepares these learners for the world of work by introducing them to workplace competencies, and makes academic content accessible to students by providing hands-on experiences in various industry sectors.[[1]](#footnote-1)

More than 62,000 New Mexico students are enrolled in CTE programs, and more than 17,000 are “concentrators,” who take two or more CTE courses. CTE Concentrators graduate high school at a rate more than 23 percentage points higher than the general student body. More than half of the state’s community college students are enrolled in CTE programs, with more than 33,000 concentrating in CTE fields.

Federal legislation requires a Comprehensive Local Needs Assessment for proposed CTE programs, and the New Mexico Public Education Department commissioned this initiative to provide parameters and guidance to CTE program applicants. Our intention is to provide intelligence on regional labor markets and economic trends to inform CTE strategies that make high-quality career opportunities more available to the students we serve.

The Region

Region G comprises a number of school districts and charter schools:

* Animas
* Cobre Consolidated
* Deming
* Lordsburg Municipal
* Magdalena Municipal
* Quemado Independent
* Reserve Independent
* Silver Consolidated
* Socorro Consolidated
* Truth or Consequences Municipal
* State Charter-Aldo Leopold

Regional Education Cooperatives (RECs) exists to provide educational services to students, staff, and families of the member districts and communities. REC’s provide ancillary support and technical assistance in implementing federal and state statutes and regulations; professional development; and support for members in meeting the Public Education Department's requirements The region is served by Regional Education Cooperatives #5 and #10.

Two degree-granting postsecondary institutions serve the area: Western New Mexico University and the New Mexico Institute of Mining and Technology. The districts lie primarily in Hidalgo, Luna Grant, Socorro, Catron and Sierra Counties, all of which are within the Southwestern Workforce Region.

**The Key Findings**

**The People**

* CTE Region G has seen generally negative population trends over recent years, with none of the region’s counties experiencing net positive growth since 2010. Combined, the region’s population has decreased 6.2% since that time, including an 8.9% decline in Sierra County.
* It is notable that the population of the region is aging. Every age band has experienced significant decreases in the region since 2010, including a 21.5% decline in the critical working-age band of 40-49. The only age band to see any increase is those 65 years and older, and their ranks have swelled by a remarkable 16% in recent years.
* More than 51% of the population in the region has either a high school diploma and no college experience or some college experience and no degree.
* The percentage who hold a bachelor’s degree or higher (20.4%) is significantly lower than the national average of 30.9%.

**The Employers**

The largest industries in the region include:

1. Government and Government Enterprises
2. Health Care and Social Assistance
3. Retail Trade
4. Accommodation and Food Service
5. Mining, Quarrying, and Oil and Gas Extraction
6. Agriculture, Forestry, Fishing and Hunting
7. Manufacturing
8. Construction

One of the unique characteristics of this region is the concentration of the *Home Health Care* and *Services for the Elderly and Disabled* industries. Additionally, the Copper, Nickel, Lead and Zinc Mining.

According to the New Mexico Department of Workforce Solutions, there are two organizations in the region who employ more than 500 workers.

* United States Government
* Gila Regional Medical Center

**The Jobs**

The occupation families with the largest projected growth include:

1. Personal Care and Service Occupations (801 new jobs)
2. Farming, Forestry and Fishing (257 new jobs)
3. Health Care Practitioners and Technical Occupations (186)
4. Installation, Maintenance and Repair (179)
5. Health Care Support (115)
6. Management (114)

This report also sought to identify “quality careers,” which are projected to grow significantly in coming years in this region and which typically pay higher-than-average wages.

Several of these Quality Careers were from the *Manufacturing* and *Installation, Maintenance and Repair* clusters, including Industrial Machinery Mechanics ($60,671, 98 new jobs), Electrical Power-Line Installers/Repairers ($60,687, 6), Welders/Cutters/Solderers/Brazers ($50,286, 17), Water Treatment Plant and System Operators ($34,955, 17) and Inspectors/Testers/Weighers ($60,161, 23).

Other Quality Careers came from the Engineering cluster, including *Mining and Geological Engineers*, *Petroleum Engineers* and *Materials Engineers*.

**The Observations**

This report identifies three segments of the regional economy which can serve as a starting point for conversations about the region’s economic priorities.

Architecture and Engineering

Many of the occupations that offer both high demand and higher-than-average wages come from the Architecture and Engineering Cluster. In particular, Geological Engineers, Petroleum Engineers and Materials Engineers are projected to experience significantly increased demand. High quality career opportunities in this field exist at every level of education.

Skilled Construction Trades

The skilled construction trades offer some of the region’s most in-demand careers, with great earning potential and the prospect of a high-quality career pathway without the burden of large student debt loads. Many of these careers make use of cutting-edge technology and offer work environments and working conditions other than the interior office environments and formal processes of many other fields.

21st Century Transportation

Many of the region’s largest industries rely on an adequate transportation industry, including education, manufacturing and construction. Truck Drivers are in high demand throughout the region, and the evolution of technologies in this field mean that education and training will continue to be a primary component of readiness.

Other areas that were considered for this recommendation, but ultimately not included were:

* Mining and Natural Resources
* Advanced Manufacturing

The People

**Population**

There are 3,969 students enrolled in grades 9-12 across the region’s ten school districts. Trends in the region’s population will have an obvious effect on that enrollment and warrants regular analysis. CTE Region G has seen generally negative population trends over recent years, with none of the region’s counties experiencing net positive growth since 2010. Combined, the region’s population has decreased 6.2% since that time, including an 8.9% decline in Sierra County.

**Table 1: Population by County, 2010-2018:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| Grant | 29,381 | 29,338 | 29,245 | 29,096 | 28,863 | 28,361 | 28,043 | 27,692 | 27,346 |
| Socorro | 17,789 | 17,776 | 17,481 | 17,514 | 17,267 | 17,146 | 16,967 | 16,885 | 16,735 |
| Catron | 3,750 | 3,719 | 3,638 | 3,589 | 3,550 | 3,480 | 3,522 | 3,567 | 3,578 |
| Sierra | 12,042 | 12,025 | 11,857 | 11,528 | 11,267 | 11,235 | 11,113 | 11,090 | 10,968 |
| Luna | 25,082 | 25,105 | 24,926 | 24,607 | 24,448 | 24,382 | 24,379 | 24,148 | 23,963 |

**Demographics-Race and Ethnicity**

**Table 2: Region G Population, by Race and Ethnicity:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Race/Ethnicity | 2010 Population | 2018 Population | Change | % Change | 2018 % of Total |
| White, Non-Hispanic | 41,079 | 34,804 | (6,275) | -15.3% | 42.1% |
| White, Hispanic | 40,245 | 39,519 | (726) | -1.8% | 47.8% |
| American Indian, Non-Hispanic | 2,479 | 2,679 | 200 | 8.1% | 3.2% |
| Other, Hispanic | 2,220 | 2,954 | 734 | 33.1% | 3.6% |
| Other | 2,021 | 2,635 | 614 | 30.4% | 3.2% |
| *United States Census Bureau, Annual Population Estimates* | | | | | |

**Demographics-Age**

It is notable that the population of the region is aging. Every age band has experienced significant decreases in the region since 2010, including a 21.5% decline in the critical working-age band of 40-49. The only age band to see any increase is those 65 years and older, and their ranks have swelled by a remarkable 16% in recent years.

**Table 3: Region G Population, by Age:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age Cohort | 2010 Population | 2018 Population | Change | % Change | 2018 % of Cohort |
| Under 10 | 10,784 | 9,759 | (1,025) | -9.5% | 11.82% |
| 10-19 | 11,486 | 10,011 | (1,475) | -12.8% | 12.12% |
| 20-29 | 9,559 | 9,315 | (244) | -2.6% | 11.28% |
| 30-39 | 8,260 | 8,237 | (23) | -0.3% | 9.97% |
| 40-49 | 10,001 | 7,852 | (2,149) | -21.5% | 9.51% |
| 50-64 | 19,460 | 16,056 | (3,404) | -17.5% | 19.44% |
| 65+ | 18,490 | 21,360 | 2,870 | 15.5% | 25.86% |
| *United States Census Bureau, Annual Population Estimates* | | | | | |

**Demographics-Educational Attainment**

**Table 4: Region G Population by Educational Attainment:**

|  |  |
| --- | --- |
| Education Level | Population |
| Less than 9th Grade | 11.8% |
| 9th Grade to 12th Grade | 9.4% |
| High School Diploma | 30.4% |
| Some College | 21.2% |
| Associate’s Degree | 6.9% |
| Bachelor’s Degree | 12.8% |
| Graduate Degree or Higher | 7.6% |
| *United States Census Bureau, American Community Survey* | |

More than 51% of the population in the region has either a high school diploma and no college experience or some college experience and no degree.

The percentage who hold a bachelor’s degree or higher (20.4%) is significantly lower than the national average of 30.9%.

The Employers

To gain perspective on the businesses who employ workers in Region G, we look at data from the New Mexico Department of Workforce Solutions, in particular the *Quarterly Census of Employment and Wages*. Data from that instrument are organized according to the *North American Industry Classification System (NAICS)*, in which businesses are categorized by their primary lines of business into general industry sectors, then subdivided into more granular industry definitions. For this report, we look first at the general industry sectors, then at the detailed industries they include.

An Employment Location Quotient is an indexed value that illustrates the concentration of an industry in a particular location. An LQ of 1.0 indicates that employment in the target industry is exactly equal to the national average. An LQ of 2.0, then would indicate that employment in the target industry is double the national average.

**Table 5: Components of Top Industry Sectors, Region G:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sector/Top Detailed Industries** | | **2019 Jobs** | **Average Wages** | **Location Quotient** |
| **Government** | | | | |
|  | Education (Local Government) | 2,176 | $36,368 | 1.53 |
|  | Education (State Government) | 1,882 | $35,408 | 3.83 |
|  | Local Government, Excluding Education and Hospitals | 1,840 | $34,917 | 1.79 |
|  | State Government, Excluding Education and Hospitals | 1,206 | $47,370 | 2.98 |
| **Health Care and Social Assistance** | | | | |
|  | Services for the Elderly and Persons with Disabilities | 770 | $14,964 | 2.22 |
|  | Home Health Care Services | 676 | $15,269 | 2.54 |
|  | General Medical and Surgical Hospitals | 540 | $57,230 | 0.64 |
|  | Offices of Physicians | 470 | $57,203 | 1.00 |
|  | Nursing Care Facilities (Skilled Nursing Facilities) | 272 | $44,777 | 0.95 |
|  | Child Day Care Services | 208 | $18,574 | 1.24 |
| **Mining, Quarrying and Oil and Gas Extraction** | | | | |
|  | Copper, Nickel, Lead, and Zinc Mining | 1,434 | $79,060 | 445.90 |
| **Agriculture, Forestry, Fishing and Hunting** | | | | |
|  | Support Activities for Crop Production | 612 | $22,476 | 6.97 |
|  | Animal Production | 524 | $34,741 | 11.10 |
|  | Crop Production | 371 | $26,558 | 3.82 |
| **Construction** | | | | |
|  | Residential Building Construction | 188 | $33,864 | 1.26 |
|  | Site Preparation Contractors | 155 | $42,571 | 2.43 |
|  | Water and Sewer Line and Related Structures Construction | 136 | $47,410 | 3.90 |
|  | Electrical Contractors and Other Wiring Installation Contractors | 96 | $40,131 | 0.55 |
|  | Plumbing, Heating, and Air-Conditioning Contractors | 96 | $39,615 | 0.47 |
|  | Power/Communication Line and Related Structures Construction | 76 | $68,871 | 2.05 |
|  | Commercial and Institutional Building Construction | 58 | $39,815 | 0.47 |
|  | Highway, Street, and Bridge Construction | 56 | $43,878 | 0.92 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sector/Top Detailed Industries** | | **2019 Jobs** | **Average Earnings** | **Location Quotient** |
| **Professional, Scientific and Technical Services** | | | | |
|  | Research/Development-Physical, Engineering, and Life Sciences | 236 | $72,624 | 2.05 |
|  | Accounting, Tax Preparation, Bookkeeping, and Payroll Services | 82 | $35,171 | 0.45 |
|  | Engineering Services | 65 | $68,163 | 0.36 |
| *Economic Modelling Specialists International* | | | | |

**Detailed Industries by County**

It is also instructive to look at detailed industries in each of the counties that make up this CTE Region. In our quest to prioritize industries and occupations, one of the most valuable pieces of intelligence we can utilize is industry employment data.

**Table 6: Employment by Industry, Catron County, 2019:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Catron | 2019 Jobs | Average Wages/ Earnings | Location Quotient | Age 45+ |
| Services for the Elderly and Persons with Disabilities | 128 | $10,488 | 15.10 | 65% |
| Local Government, Excluding Education and Hospitals | 117 | $32,756 | 4.67 | N/A |
| Federal Government, Civilian, Excluding Postal Service | 78 | $63,141 | 7.86 | N/A |
| Education (Local Government) | 55 | $25,871 | 1.58 | N/A |
| Gasoline Stations with Convenience Stores | 41 | $11,348 | 11.29 | N/A |
| State Government, Excluding Education and Hospitals | 16 | $43,493 | 1.59 | N/A |
| Bread and Bakery Product Manufacturing | 14 | $14,592 | 13.08 | N/A |
| Animal Production | 13 | $30,630 | 11.67 | N/A |
| Petroleum Bulk Stations and Terminals | 13 | $46,701 | 90.29 | N/A |
| Drinking Places (Alcoholic Beverages) | 13 | $9,588 | 7.30 | N/A |
| *Economic Modelling Specialists International* | | | | |

**Table 7: Employment by Industry, Grant County, 2019:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grant | 2019 Jobs | Average Wages/ Earnings | Location Quotient | Age 45+ |
| Copper, Nickel, Lead, and Zinc Mining | 1,434 | $79,060 | 1,273.45 | 46.9% |
| Restaurants and Other Eating Places | 743 | $12,906 | 1.10 | 17.9% |
| Education (Local Government) | 723 | $33,360 | 1.45 | 48.0% |
| Education (State Government) | 624 | $28,521 | 3.63 | 49.0% |
| State Government, Excluding Education and Hospitals | 554 | $40,471 | 3.91 | 42.8% |
| Hospitals (Local Government) | 536 | $59,285 | 12.68 | 56.0% |
| Local Government, Excluding Education and Hospitals | 414 | $38,202 | 1.15 | 46.1% |
| Merchandise Stores, Warehouse Clubs and Supercenters | 355 | $24,408 | 2.90 | 38.0% |
| Offices of Physicians | 306 | $52,511 | 1.85 | 57.2% |
| Supermarkets and Other Grocery (except Convenience) Stores | 169 | $23,962 | 1.07 | 41.4% |
| *Economic Modelling Specialists International* | | | | |

**Table 8: Employment by Industry, Sierra County, 2019:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sierra | | 2019 Jobs | Average Wages/ Earnings | Location Quotient | Age 45+ | |
| Local Government, Excluding Education and Hospitals | | 300 | $31,147 | 2.34 | 46.3% | |
| Restaurants and Other Eating Places | | 268 | $13,531 | 1.11 | N/A | |
| State Government, Excluding Education and Hospitals | | 209 | $56,473 | 4.13 | N/A | |
| Education (Local Government) | | 200 | $43,007 | 1.12 | 48.5% | |
| Merchandise Stores, Warehouse Clubs and Supercenters | | 173 | $25,568 | 3.95 | 39.3% | |
| Nursing Care Facilities (Skilled Nursing Facilities) | | 170 | $39,984 | 4.75 | 46.5% | |
| General Medical and Surgical Hospitals | | 157 | $44,072 | 1.48 | 51.0% | |
| Hotels (except Casino Hotels) and Motels | | 155 | $15,130 | 4.21 | 46.5% | |
| Crop Production | | 142 | $25,048 | 11.63 | N/A | |
| Home Health Care Services | | 130 | $21,169 | 3.90 | 59.2% | |
| *Economic Modelling Specialists International* | | | | |

**Table 9: Employment by Industry, Socorro County, 2019:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Socorro | | 2019 Jobs | Average Wages/ Earnings | Location Quotient | Age 45+ | |
| Education (State Government) | | 1,154 | $39,745 | 10.85 | 49.0% | |
| Education (Local Government) | | 602 | $35,078 | 1.96 | 48.0% | |
| Restaurants and Other Eating Places | | 388 | $13,944 | 0.93 | 28.4% | |
| Services for the Elderly and Persons with Disabilities | | 374 | $16,183 | 4.98 | 40.6% | |
| Local Government, Excluding Education and Hospitals | | 365 | $32,558 | 1.65 | 46.3% | |
| Elementary and Secondary Schools | | 302 | $23,900 | 6.94 | 56.0% | |
| Animal Production | | 262 | $33,064 | 25.69 | 48.9% | |
| Research and Development in the Physical, Engineering, and Life Sciences | | 236 | $72,437 | 9.45 | 66.9% | |
| Merchandise Stores, Warehouse Clubs and Supercenters | | 196 | $25,419 | 2.58 | 34.2% | |
| State Government, Excluding Education and Hospitals | | 170 | $51,650 | 1.94 | N/A | |
| *Economic Modelling Specialists International* | | | | |

**Table 10: Employment by Industry, Luna County, 2019:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Luna | | 2019 Jobs | Average Wages/ Earnings | Location Quotient | Age 45+ | |
| Local Government, Excluding Education and Hospitals | | 644 | $36,294 | 2.21 | 46.1% | |
| Education (Local Government) | | 596 | $40,059 | 1.48 | 48.0% | |
| Restaurants and Other Eating Places | | 529 | $12,196 | 0.97 | 24.0% | |
| Support Activities for Crop Production | | 441 | $18,362 | 17.69 | 60.3% | |
| Federal Government, Civilian, Excluding Postal Service | | 410 | $108,015 | 3.54 | 44.1% | |
| Fruit and Vegetable Canning, Pickling, and Drying | | 406 | $31,252 | 97.96 | 48.8% | |
| Home Health Care Services | | 368 | $15,030 | 4.87 | 55.2% | |
| Merchandise Stores, Warehouse Clubs and Supercenters | | 312 | $24,690 | 3.14 | 37.2% | |
| State Government, Excluding Education and Hospitals | | 258 | $52,238 | 2.24 | 42.6% | |
| General Medical and Surgical Hospitals | | 242 | $52,290 | 1.01 | 48.8% | |
| *Economic Modelling Specialists International* | | | | |

The Jobs

Another instrument of the New Mexico Department of Workforce Solutions that provides valuable perspective on career opportunities in this region is the *Occupational Employment Statistics* Series. Employment and wages are estimated for more than 750 occupation categories, and to evaluate growth in demand for particular occupations, we return the occupations with the largest growth since 2010.

**Table 11: Occupation Employment, Region G, 2010-2019:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Description | 2010 Jobs | 2019 Jobs | 2010 - 2019 Change | 2010 - 2019 % Change | Annual Openings | Median Annual Earnings |
| Secretaries and Administrative Assistants | 1,084 | 1,084 | 0 | 0% | 142 | $30,074 |
| Cashiers | 964 | 912 | (52) | (5%) | 189 | $19,043 |
| Janitors and Cleaners | 642 | 573 | (69) | (11%) | 89 | $21,526 |
| Food Prep/Serving Workers, Fast Food | 639 | 687 | 48 | 8% | 136 | $17,375 |
| Retail Salespersons | 639 | 558 | (81) | (13%) | 100 | $20,609 |
| Waiters and Waitresses | 536 | 554 | 18 | 3% | 125 | $17,175 |
| Office Clerks, General | 504 | 404 | (100) | (20%) | 58 | $21,127 |
| Registered Nurses | 485 | 549 | 64 | 13% | 47 | $62,311 |
| Farmworkers-Crop, Nursery, and Greenhouse | 476 | 609 | 133 | 28% | 131 | $17,479 |
| Postsecondary Teachers | 468 | 421 | (47) | (10%) | 44 | $51,595 |
| Elementary School Teachers | 463 | 400 | (63) | (14%) | 44 | $44,891 |
| Stock Clerks and Order Fillers | 434 | 390 | (44) | (10%) | 60 | $21,861 |
| Teacher Assistants | 424 | 386 | (38) | (9%) | 50 | $18,251 |
| Bookkeeping, Accounting, and Auditing Clerks | 374 | 281 | (93) | (25%) | 39 | $32,952 |
| Substitute Teachers | 373 | 366 | (7) | (2%) | 58 | $23,413 |
| Maintenance and Repair Workers, General | 364 | 426 | 62 | 17% | 49 | $29,026 |
| Heavy and Tractor-Trailer Truck Drivers | 304 | 382 | 78 | 26% | 61 | $38,976 |
| Correctional Officers and Jailers | 293 | 252 | (41) | (14%) | 28 | $35,124 |
| Personal Care Aides | 291 | 1,082 | 791 | 272% | 198 | $18,394 |
| First-Line Supervisors of Retail Sales Workers | 286 | 246 | (40) | (14%) | 32 | $30,197 |
| Middle School Teachers | 284 | 236 | (48) | (17%) | 26 | $49,788 |
| Secondary School Teachers | 284 | 261 | (23) | (8%) | 28 | $49,451 |
| Supervisors-Office & Administrative Support | 280 | 258 | (22) | (8%) | 30 | $45,992 |
| General and Operations Managers | 279 | 323 | 44 | 16% | 34 | $78,075 |

Many factors go into an evaluation of a career’s potential, including demand and earning potential. The New Mexico Department of Workforce Solutions also projects changes in total employment for every occupation by 2026. The occupations that are projected to experience the largest growth and that pay wages above the region’s average are categorized here as high-quality careers, and detailed occupations are grouped into general “occupation families.”

**Table 12: Projected Change, Occupations, 2016-2026, Region G:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| High Quality Career | 2016 Jobs | 2026 Jobs | New Jobs | % Change | Annual Openings | Average Earnings |
| **Health Care Practitioners and Technical Occupations** | | | | | | |
| Registered Nurses | 485 | 549 | 64 | 13% | 47 | $62,311 |
| Licensed Practical & Licensed Vocational Nurses | 79 | 78 | (1) | (1%) | 10 | $49,717 |
| Radiologic Technologists | 51 | 53 | 2 | 4% | 5 | $51,781 |
| Clinical Laboratory Technologists / Technicians | 47 | 46 | (1) | (2%) | 5 | $43,498 |
| Pharmacists | 37 | 37 | 0 | 0% | 3 | $126,412 |
| Physical Therapists | 34 | 48 | 14 | 41% | 5 | $88,818 |
| Speech-Language Pathologists | 26 | 33 | 7 | 27% | 3 | $69,046 |
| **Installation, Maintenance and Repair** | | | | | | |
| Industrial Machinery Mechanics | 137 | 235 | 98 | 72% | 41 | $60,671 |
| Electrical Power-Line Installers and Repairers | 60 | 66 | 6 | 10% | 9 | $60,687 |
| Mobile Heavy Equipment Mechanics | 76 | 82 | 6 | 8% | 14 | $54,368 |
| Outdoor Equipment & Small Engine Mechanics | 11 | 16 | 5 | 45% | 3 | $30,515 |
| HVAC and Refrigeration Mechanics and Installers | 26 | 31 | 5 | 19% | 4 | $39,125 |
| Telecommunications Equipmt Installer/Repairer | 29 | 33 | 4 | 14% | 5 | $40,147 |
| **Production** | | | | | | |
| Inspectors, Testers, Sorters, Samplers, Weighers | 72 | 95 | 23 | 32% | 15 | $60,161 |
| Welders, Cutters, Solderers, and Brazers | 68 | 85 | 17 | 25% | 14 | $50,286 |
| Water Treatment Plant and System Operators | 51 | 68 | 17 | 33% | 8 | $34,955 |
| **Transportation and Material Moving** | | | | | | |
| Heavy and Tractor-Trailer Truck Drivers | 327 | 415 | 88 | 27% | 66 | $39,546 |
| Light Truck or Delivery Services Drivers | 106 | 109 | 3 | 3% | 15 | $30,631 |
| **High Quality Career** | **2016 Jobs** | **2026 Jobs** | **New Jobs** | **% Change** | **Annual Openings** | **Average Earnings** |
| **Health Care Support** | | | | | | |
| Physical Therapist Assistants | 13 | 20 | 7 | 54% | 3 | $31,145 |
| Dental Assistants | 62 | 66 | 4 | 6% | 10 | $31,079 |
| **Architecture and Engineering** | | | | | | |
| Mining and Geological Engineers | 30 | 49 | 19 | 63% | 9 | $86,380 |
| Petroleum Engineers | 12 | 28 | 16 | 133% | 4 | $93,752 |
| Materials Engineers | 14 | 28 | 14 | 100% | 4 | $64,034 |
| **Construction and Extraction** | | | | | | |
| Supervisors-Construction Trades and Extraction | 142 | 175 | 33 | 23% | 24 | $57,300 |
| Electricians | 110 | 133 | 23 | 21% | 23 | $43,964 |
| Plumbers, Pipefitters, and Steamfitters | 35 | 40 | 5 | 14% | 9 | $37,874 |

The Talent Development Ecosystem

**Assets**

CTE Region G is served by Regional Education Cooperatives #5 and #10. Postsecondary educational institutions in the region include Western New Mexico University and the New Mexico Institute of Mining and Technology.

**Awards**

In 2018, the most recent academic year for which data are available, 1,150 degrees and certificates were awarded by these institutions, including 111 non-degree certificates.

Workforce Equilibrium

Finally, we use a crosswalk from the United States Department of Education to estimate the balance between the region’s emerging supply of qualified talent and projected demand for workers with relevant skills. The difference between awards in a program and the aggregated number of openings in related occupations is quantified here as a “Workforce Equilibrium Value.”

Ideally, the numbers representing emerging supply will be roughly equal to projected demand. Where an imbalance exists, there may be an opportunity to expand program offerings or to encourage students and jobseekers to consider careers in these fields. The educational system thus becomes a valuable factor in not only the success of individual students, but also in the economic success of the region.

**Table 13: Program Awards and Openings in Related Occupations, Region G:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | 2018 Awards | Openings-Related Occupations | 2019 Jobs | Equilibrium Value |
| Social Work | 233 | 16 | 130 | 217 |
| Welding Technology/Welder | 84 | 15 | 85 | 69 |
| Mechanical Engineering | 76 | 6 | 37 | 70 |
| Petroleum Engineering | 59 | 6 | 35 | 53 |
| Business Administration and Management, General | 44 | 85 | 775 | (41) |
| Registered Nursing/Registered Nurse | 41 | 49 | 574 | (8) |
| Criminal Justice/Safety Studies | 37 | 4 | 44 | 33 |
| Rehabilitation Science | 32 | 49 | 446 | (17) |
| Electrical, Electronic and Communications Engineering Technology/Technician | 30 | 3 | 12 | 27 |
| Computer Science | 30 | 22 | 193 | 8 |
| Psychology, General | 29 | 6 | 48 | 23 |
| General Studies | 27 | 0 | 0 | 27 |
| Chemical Engineering | 24 | 2 | 16 | 22 |
| Mathematics, General | 22 | 3 | 25 | 19 |
| Biology/Biological Sciences, General | 22 | 7 | 58 | 15 |
| Electrical and Electronics Engineering | 20 | 4 | 22 | 16 |
| Materials Engineering | 19 | 7 | 44 | 12 |
| Elementary Education and Teaching | 18 | 46 | 421 | (28) |
| Occupational Therapy/Therapist | 16 | 2 | 19 | 14 |
| Science Teacher Education/General Science Teacher Education | 15 | 56 | 523 | (41) |
| Kindergarten/Preschool Education and Teaching | 15 | 24 | 173 | (9) |
| English Language and Literature, General | 15 | 46 | 422 | (31) |
| Chemistry, General | 15 | 5 | 41 | 10 |
| Physics, General | 15 | 7 | 58 | 8 |
| Physical Sciences | 14 | 3 | 24 | 11 |
| Mining and Mineral Engineering | 13 | 11 | 56 | 2 |

For more information, contact Trevor Stokes at tstokes@careersthatwork.net

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1. *https://webnew.ped.state.nm.us/bureaus/college-career-readiness/career-technical-education/* [↑](#footnote-ref-1)